**Supplementary Information**

**The emergence of a climate change signal in long-term Irish meteorological observations**

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Supplementary information provides maps of the signal to noise ratio for seasonal ETCCDI temperature indices (Figures S1-S4) followed by tables showing results derived for all indicators/stations to estimate the signal to noise ratio for changes in observed climate indices by linearly regressing local variations in climate onto annual Global Mean Surface Temperature (GMST) change. Tables of results are presented in the following order:

Annual and Seasonal Mean Temperature indices

Annual Temperature ETCCDI indices

Winter Temperature ETCCDI indices

Spring Temperature ETCCDI indices

Summer Temperature ETCCDI indices

Autumn Temperature ETCCDI indices

Annual and Seasonal Precipitation Totals

Annual Precipitation ETCCDI indices

Each table contains the following information: Indicator name; alpha (, the linear scaling between local and global climate and its unit of measurement; p-value for the linear regression model; alpha.se, the standard error of alpha; avg obs, the average of the observed series over the period of record; signal; the signal of local climate change described by GMST; noise, the standard deviation of the residuals ; and SNR, the signal to noise ratio.

Map

Description automatically generated

**Figure S1 Signal to Noise Ratio (SNR) for winter [DJF] ETCCDI temperature indices.** **SNR values are categorised as 0=Normal, 1=Unusual, 2=Unfamiliar, with darker triangles indicating unusual and unfamiliar. The direction of the triangle reflects the direction of the long-term trend. Only indices showing the emergence of unusual climate for at least one station are plotted. See Table 1 for a full description of indicators.**

Map

Description automatically generated

**Figure S2 As Figure S1 but for spring [MAM] ETCCDI temperature indices. Only indices showing the emergence of unusual climate for at least one station are plotted. See Table 1 for a full description of indicators.**

Map

Description automatically generated

**Figure S3 As Figure S1 but for summer [JJA] ETCCDI temperature indices. Only indices showing the emergence of unusual climate for at least one station are plotted. See Table 1 for a full description of indicators.**

Map

Description automatically generated

**Figure S4 As Figure S1 but for autumn [SON] ETCCDI temperature indices. Only indices showing the emergence of unusual climate for at least one station are plotted. See Table 1 for a full description of indicators.**

**Annual and Seasonal Mean Temperature indices**

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| --- | --- | --- | --- | --- | --- | --- | --- |
| **Annual Mean Temp** | **alpha (oC)** | **p-value** | **alpha.se** | **avg obs** | **signal** | **noise** | **SNR** |
| Phoenix Park | 1.14 | 0.00 | 0.11 | 9.64 | 1.41 | 0.60 | 2.34 |
| Glasnevin | 1.11 | 0.00 | 0.10 | 10.40 | 1.38 | 0.59 | 2.34 |
| Dublin | 1.05 | 0.00 | 0.11 | 10.35 | 1.30 | 0.58 | 2.23 |
| Armagh | 1.05 | 0.00 | 0.10 | 9.37 | 1.30 | 0.57 | 2.27 |
| Birr | 1.05 | 0.00 | 0.11 | 9.27 | 1.30 | 0.59 | 2.22 |
| Roches Point | 0.63 | 0.00 | 0.10 | 10.41 | 0.77 | 0.47 | 1.66 |
| Malin Head | 0.77 | 0.00 | 0.09 | 9.50 | 0.95 | 0.48 | 2.00 |
| Markree | 0.72 | 0.00 | 0.10 | 8.90 | 0.89 | 0.49 | 1.81 |
| Galway | 0.71 | 0.00 | 0.10 | 9.46 | 0.88 | 0.48 | 1.83 |
| Valentia | 0.72 | 0.00 | 0.09 | 10.62 | 0.89 | 0.46 | 1.94 |
| Belmullet | 0.74 | 0.00 | 0.10 | 10.07 | 0.92 | 0.48 | 1.89 |
| Island of Ireland | 0.88 | 0.00 | 0.10 | 9.82 | 1.09 | 0.51 | 2.14 |
|  |  |  |  |  |  |  |  |
| **Winter Mean Temp** | **alpha (oC)** | **p-value** | **alpha.se** | **avg obs** | **signal** | **noise** | **SNR** |
| Phoenix Park | 0.65 | 0.01 | 0.24 | 5.13 | 0.80 | 1.01 | 0.79 |
| Glasnevin | 0.67 | 0.01 | 0.24 | 5.94 | 0.83 | 1.02 | 0.81 |
| Dublin | 0.48 | 0.05 | 0.24 | 6.17 | 0.59 | 1.00 | 0.59 |
| Armagh | 0.65 | 0.01 | 0.24 | 4.76 | 0.80 | 1.02 | 0.78 |
| Birr | 0.76 | 0.00 | 0.25 | 4.87 | 0.94 | 1.06 | 0.89 |
| Roches Point | 0.44 | 0.03 | 0.20 | 6.68 | 0.55 | 0.84 | 0.66 |
| Malin Head | 0.62 | 0.00 | 0.19 | 5.55 | 0.77 | 0.81 | 0.95 |
| Markree | 0.45 | 0.06 | 0.24 | 4.57 | 0.56 | 1.00 | 0.56 |
| Galway | 0.46 | 0.04 | 0.22 | 5.07 | 0.57 | 0.94 | 0.60 |
| Valentia | 0.55 | 0.01 | 0.20 | 7.22 | 0.68 | 0.85 | 0.80 |
| Belmullet | 0.55 | 0.01 | 0.21 | 6.31 | 0.68 | 0.88 | 0.77 |
| Island of Ireland | 0.57 | 0.01 | 0.22 | 5.66 | 0.71 | 0.92 | 0.76 |
|  |  |  |  |  |  |  |  |
| **Spring Mean Temp** | **alpha (oC)** | **p-value** | **alpha.se** | **avg obs** | **signal** | **noise** | **SNR** |
| Phoenix Park | 1.46 | 0.00 | 0.17 | 8.44 | 1.81 | 0.89 | 2.03 |
| Glasnevin | 1.47 | 0.00 | 0.17 | 9.12 | 1.82 | 0.89 | 2.04 |
| Dublin | 1.47 | 0.00 | 0.17 | 8.97 | 1.81 | 0.90 | 2.02 |
| Armagh | 1.26 | 0.00 | 0.17 | 8.37 | 1.56 | 0.86 | 1.82 |
| Birr | 1.14 | 0.00 | 0.18 | 8.25 | 1.41 | 0.86 | 1.64 |
| Roches Point | 0.80 | 0.00 | 0.16 | 8.97 | 0.99 | 0.71 | 1.39 |
| Malin Head | 1.04 | 0.00 | 0.17 | 8.14 | 1.29 | 0.79 | 1.63 |
| Markree | 0.93 | 0.00 | 0.18 | 8.01 | 1.15 | 0.81 | 1.43 |
| Galway | 0.86 | 0.00 | 0.17 | 8.44 | 1.07 | 0.78 | 1.36 |
| Valentia | 0.90 | 0.00 | 0.16 | 9.29 | 1.11 | 0.74 | 1.50 |
| Belmullet | 1.00 | 0.00 | 0.17 | 8.92 | 1.24 | 0.79 | 1.58 |
| Island of Ireland | 1.12 | 0.00 | 0.16 | 8.63 | 1.39 | 0.79 | 1.75 |
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|  |  |  |  |  |  |  |  |
| **Summer Mean Temp** | **alpha (oC)** | **p-value** | **alpha.se** | **avg obs** | **signal** | **noise** | **SNR** |
| Phoenix Park | 1.05 | 0.00 | 0.16 | 14.82 | 1.30 | 0.77 | 1.69 |
| Glasnevin | 1.04 | 0.00 | 0.16 | 15.59 | 1.28 | 0.75 | 1.72 |
| Dublin | 1.00 | 0.00 | 0.17 | 15.30 | 1.24 | 0.78 | 1.60 |
| Armagh | 1.02 | 0.00 | 0.17 | 14.62 | 1.26 | 0.79 | 1.59 |
| Birr | 1.04 | 0.00 | 0.18 | 14.32 | 1.29 | 0.82 | 1.57 |
| Roches Point | 0.40 | 0.02 | 0.16 | 14.83 | 0.50 | 0.69 | 0.72 |
| Malin Head | 0.56 | 0.00 | 0.14 | 13.77 | 0.70 | 0.63 | 1.10 |
| Markree | 0.61 | 0.00 | 0.16 | 13.76 | 0.75 | 0.69 | 1.08 |
| Galway | 0.60 | 0.00 | 0.17 | 14.38 | 0.74 | 0.73 | 1.02 |
| Valentia | 0.44 | 0.00 | 0.15 | 14.62 | 0.54 | 0.64 | 0.85 |
| Belmullet | 0.57 | 0.00 | 0.15 | 14.19 | 0.70 | 0.64 | 1.09 |
| Island of Ireland | 0.76 | 0.00 | 0.15 | 14.56 | 0.94 | 0.69 | 1.35 |
|  |  |  |  |  |  |  |  |
| **Autumn Mean Temp** | **alpha (oC)** | **p-value** | **alpha.se** | **avg obs** | **signal** | **noise** | **SNR** |
| Phoenix Park | 1.30 | 0.00 | 0.18 | 10.10 | 1.62 | 0.90 | 1.80 |
| Glasnevin | 1.25 | 0.00 | 0.18 | 10.95 | 1.55 | 0.86 | 1.79 |
| Dublin | 1.24 | 0.00 | 0.18 | 10.95 | 1.53 | 0.89 | 1.73 |
| Armagh | 1.29 | 0.00 | 0.18 | 9.73 | 1.60 | 0.89 | 1.78 |
| Birr | 1.20 | 0.00 | 0.19 | 9.61 | 1.48 | 0.92 | 1.62 |
| Roches Point | 0.88 | 0.00 | 0.17 | 11.13 | 1.09 | 0.76 | 1.43 |
| Malin Head | 0.79 | 0.00 | 0.15 | 10.52 | 0.98 | 0.69 | 1.42 |
| Markree | 0.87 | 0.00 | 0.18 | 9.28 | 1.08 | 0.80 | 1.35 |
| Galway | 0.85 | 0.00 | 0.17 | 9.92 | 1.05 | 0.77 | 1.37 |
| Valentia | 1.01 | 0.00 | 0.17 | 11.33 | 1.25 | 0.80 | 1.55 |
| Belmullet | 0.82 | 0.00 | 0.16 | 10.82 | 1.02 | 0.73 | 1.40 |
| Island of Ireland | 1.05 | 0.00 | 0.17 | 10.39 | 1.29 | 0.80 | 1.62 |

**Annual Temperature ETCCDI indices**

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| **Cool Days (TX10p)** | **alpha (%)** | **p-value** | **alpha.se** | **avg obs** | **signal** | **noise** | **SNR** |
| Phoenix Park | -7.42 | 0.00 | 0.93 | 10.57 | -9.19 | 4.73 | -1.94 |
| Glasnevin | -7.92 | 0.00 | 0.98 | 10.21 | -9.81 | 4.98 | -1.97 |
| Dublin | -8.13 | 0.00 | 0.99 | 10.72 | -10.07 | 5.06 | -1.99 |
| Roches Point | -4.54 | 0.00 | 0.98 | 8.54 | -5.62 | 4.41 | -1.27 |
| Malin Head | -9.44 | 0.00 | 1.07 | 10.88 | -11.69 | 5.63 | -2.08 |
| Birr | -7.93 | 0.00 | 0.93 | 10.32 | -9.82 | 4.82 | -2.04 |
| Galway | -7.20 | 0.00 | 1.02 | 10.47 | -8.92 | 4.97 | -1.79 |
| Valentia | -7.30 | 0.00 | 0.98 | 9.50 | -9.04 | 4.85 | -1.86 |
| Markree | -7.88 | 0.00 | 0.97 | 10.31 | -9.76 | 4.94 | -1.98 |
| Armagh | -6.13 | 0.00 | 0.87 | 9.83 | -7.59 | 4.25 | -1.79 |
| Belmullet | -8.42 | 0.00 | 1.22 | 10.58 | -10.42 | 5.94 | -1.76 |
| Island of Ireland | -7.48 | 0.00 | 0.90 | 10.18 | -9.27 | 4.63 | -2.00 |

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| **Cool Nights (TN10p)** | **alpha (%)** | **p-value** | **alpha.se** | **avg obs** | **signal** | **noise** | **SNR** |
| Phoenix Park | -9.77 | 0.00 | 0.85 | 12.07 | -12.10 | 5.01 | -2.42 |
| Glasnevin | -9.43 | 0.00 | 0.80 | 12.42 | -11.68 | 4.76 | -2.45 |
| Dublin | -10.05 | 0.00 | 0.86 | 12.01 | -12.45 | 5.12 | -2.43 |
| Roches Point | -5.98 | 0.00 | 0.82 | 9.47 | -7.41 | 4.06 | -1.83 |
| Malin Head | -2.50 | 0.00 | 0.80 | 8.61 | -3.10 | 3.46 | -0.90 |
| Birr | -6.68 | 0.00 | 0.75 | 11.96 | -8.28 | 3.96 | -2.09 |
| Galway | -1.98 | 0.02 | 0.82 | 10.03 | -2.45 | 3.49 | -0.70 |
| Valentia | -3.57 | 0.00 | 0.69 | 9.18 | -4.42 | 3.15 | -1.40 |
| Markree | -4.10 | 0.00 | 0.75 | 9.09 | -5.08 | 3.47 | -1.46 |
| Armagh | -6.84 | 0.00 | 0.83 | 11.51 | -8.47 | 4.27 | -1.98 |
| Belmullet | -1.18 | 0.15 | 0.82 | 7.61 | -1.46 | 3.45 | -0.42 |
| Island of Ireland | -5.65 | 0.00 | 0.65 | 10.36 | -6.99 | 3.40 | -2.05 |

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| **Cold Spell Duration (CSDI)** | **alpha (days)** | **p-value** | **alpha.se** | **avg obs** | **signal** | **noise** | **SNR** |
| Phoenix Park | -5.81 | 0.00 | 1.41 | 4.07 | -7.19 | 6.26 | -1.15 |
| Glasnevin | -5.70 | 0.00 | 1.37 | 3.66 | -7.05 | 6.07 | -1.16 |
| Dublin | -8.10 | 0.00 | 1.69 | 5.79 | -10.03 | 7.64 | -1.31 |
| Roches Point | -4.93 | 0.00 | 1.63 | 4.22 | -6.11 | 7.01 | -0.87 |
| Malin Head | -2.99 | 0.00 | 1.01 | 2.13 | -3.70 | 4.34 | -0.85 |
| Birr | -7.00 | 0.00 | 1.46 | 4.25 | -8.67 | 6.60 | -1.31 |
| Galway | -3.56 | 0.01 | 1.26 | 3.35 | -4.41 | 5.42 | -0.81 |
| Valentia | -1.88 | 0.05 | 0.95 | 1.82 | -2.33 | 4.02 | -0.58 |
| Markree | -1.42 | 0.12 | 0.92 | 1.72 | -1.76 | 3.87 | -0.46 |
| Armagh | -5.74 | 0.00 | 1.45 | 4.12 | -7.11 | 6.38 | -1.12 |
| Belmullet | -1.59 | 0.18 | 1.19 | 2.46 | -1.97 | 4.99 | -0.39 |
| Island of Ireland | -4.43 | 0.00 | 0.95 | 3.42 | -5.49 | 4.27 | -1.29 |

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| **Diurnal Temperature Range (DTR)** | **alpha (oC)** | **p-value** | **alpha.se** | **avg obs** | **signal** | **noise** | **SNR** |
| Phoenix Park | -0.41 | 0.00 | 0.08 | 7.59 | -0.50 | 0.38 | -1.33 |
| Glasnevin | -0.20 | 0.02 | 0.08 | 6.49 | -0.24 | 0.36 | -0.68 |
| Dublin | -0.17 | 0.02 | 0.07 | 5.68 | -0.21 | 0.30 | -0.70 |
| Roches Point | -0.03 | 0.53 | 0.05 | 5.14 | -0.04 | 0.23 | -0.19 |
| Malin Head | 0.16 | 0.02 | 0.07 | 4.84 | 0.20 | 0.29 | 0.71 |
| Birr | -0.31 | 0.00 | 0.09 | 7.49 | -0.39 | 0.40 | -0.96 |
| Galway | 0.20 | 0.01 | 0.08 | 7.37 | 0.25 | 0.33 | 0.75 |
| Valentia | -0.09 | 0.26 | 0.08 | 5.45 | -0.11 | 0.32 | -0.34 |
| Markree | -0.05 | 0.59 | 0.09 | 7.62 | -0.06 | 0.36 | -0.16 |
| Armagh | -0.33 | 0.00 | 0.08 | 7.47 | -0.41 | 0.36 | -1.13 |
| Belmullet | 0.03 | 0.68 | 0.07 | 5.43 | 0.03 | 0.28 | 0.12 |
| Island of Ireland | -0.11 | 0.04 | 0.05 | 6.42 | -0.13 | 0.23 | -0.59 |

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| **Frost Days (FD)** | **alpha (days)** | **p-value** | **alpha.se** | **avg obs** | **signal** | **noise** | **SNR** |
| Phoenix Park | -21.17 | 0.00 | 2.88 | 44.16 | -26.22 | 14.26 | -1.84 |
| Glasnevin | -13.19 | 0.00 | 2.28 | 28.53 | -16.33 | 10.64 | -1.54 |
| Dublin | -9.07 | 0.00 | 1.90 | 14.56 | -11.23 | 8.56 | -1.31 |
| Roches Point | -4.77 | 0.00 | 1.52 | 8.09 | -5.91 | 6.55 | -0.90 |
| Malin Head | -4.00 | 0.05 | 2.00 | 12.79 | -4.95 | 8.44 | -0.59 |
| Birr | -21.92 | 0.00 | 3.20 | 49.79 | -27.14 | 15.52 | -1.75 |
| Galway | -5.44 | 0.10 | 3.32 | 41.10 | -6.73 | 13.97 | -0.48 |
| Valentia | -3.19 | 0.06 | 1.71 | 12.34 | -3.95 | 7.20 | -0.55 |
| Markree | -15.93 | 0.00 | 3.45 | 55.55 | -19.73 | 15.47 | -1.28 |
| Armagh | -16.70 | 0.00 | 3.37 | 44.36 | -20.68 | 15.29 | -1.35 |
| Belmullet | -1.13 | 0.59 | 2.07 | 11.47 | -1.39 | 8.64 | -0.16 |
| Island of Ireland | -10.59 | 0.00 | 2.21 | 29.34 | -13.12 | 9.98 | -1.31 |

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| **Growing Season Length (GSL)** | **alpha (days)** | **p-value** | **alpha.se** | **avg obs** | **signal** | **noise** | **SNR** |
| Phoenix Park | 21.87 | 0.00 | 7.06 | 320.96 | 27.08 | 30.46 | 0.89 |
| Glasnevin | 21.04 | 0.00 | 5.88 | 336.05 | 26.06 | 25.67 | 1.02 |
| Dublin | 17.35 | 0.00 | 5.60 | 340.59 | 21.48 | 24.17 | 0.89 |
| Roches Point | 7.77 | 0.03 | 3.61 | 353.98 | 9.62 | 15.29 | 0.63 |
| Malin Head | 12.78 | 0.02 | 5.24 | 340.85 | 15.82 | 22.30 | 0.71 |
| Birr | 29.42 | 0.00 | 7.13 | 316.45 | 36.43 | 31.58 | 1.15 |
| Galway | 24.25 | 0.00 | 7.35 | 320.84 | 30.03 | 31.85 | 0.94 |
| Valentia | 5.30 | 0.14 | 3.58 | 354.93 | 6.56 | 15.04 | 0.44 |
| Markree | 21.44 | 0.01 | 7.87 | 306.61 | 26.55 | 33.72 | 0.79 |
| Armagh | 28.57 | 0.00 | 7.85 | 311.35 | 35.38 | 34.31 | 1.03 |
| Belmullet | 10.52 | 0.02 | 4.29 | 349.15 | 13.02 | 18.27 | 0.71 |
| Island of Ireland | 18.21 | 0.00 | 4.52 | 331.98 | 22.55 | 19.97 | 1.13 |
| **Coldest night (TNn)** | **alpha (oC)** | **p-value** | **alpha.se** | **avg obs** | **signal** | **noise** | **SNR** |
| Phoenix Park | 2.63 | 0.00 | 0.51 | -6.95 | 3.25 | 2.33 | 1.39 |
| Glasnevin | 2.07 | 0.00 | 0.49 | -5.82 | 2.56 | 2.18 | 1.18 |
| Dublin | 1.87 | 0.00 | 0.41 | -3.68 | 2.31 | 1.85 | 1.25 |
| Roches Point | 0.84 | 0.01 | 0.33 | -2.04 | 1.04 | 1.41 | 0.74 |
| Malin Head | 0.35 | 0.37 | 0.38 | -2.96 | 0.43 | 1.60 | 0.27 |
| Birr | 1.63 | 0.00 | 0.52 | -7.48 | 2.02 | 2.24 | 0.90 |
| Galway | 0.54 | 0.28 | 0.50 | -6.07 | 0.67 | 2.09 | 0.32 |
| Valentia | 0.39 | 0.26 | 0.35 | -3.32 | 0.48 | 1.45 | 0.33 |
| Markree | 2.43 | 0.00 | 0.59 | -8.30 | 3.01 | 2.62 | 1.15 |
| Armagh | 1.75 | 0.00 | 0.53 | -7.18 | 2.17 | 2.28 | 0.95 |
| Belmullet | 0.50 | 0.21 | 0.39 | -2.76 | 0.62 | 1.65 | 0.37 |
| Island of Ireland | 1.27 | 0.00 | 0.37 | -5.14 | 1.58 | 1.61 | 0.98 |

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| **Hottest night (TNx)** | **alpha (oC)** | **p-value** | **alpha.se** | **avg obs** | **signal** | **noise** | **SNR** |
| Phoenix Park | 1.04 | 0.00 | 0.24 | 16.40 | 1.29 | 1.06 | 1.22 |
| Glasnevin | 0.61 | 0.01 | 0.24 | 17.70 | 0.76 | 1.03 | 0.74 |
| Dublin | 1.22 | 0.00 | 0.26 | 17.12 | 1.51 | 1.18 | 1.27 |
| Roches Point | 0.41 | 0.10 | 0.24 | 15.98 | 0.50 | 1.03 | 0.49 |
| Malin Head | 0.37 | 0.14 | 0.25 | 15.58 | 0.46 | 1.05 | 0.43 |
| Birr | 1.38 | 0.00 | 0.24 | 15.79 | 1.71 | 1.10 | 1.55 |
| Galway | 0.28 | 0.29 | 0.27 | 15.47 | 0.35 | 1.11 | 0.32 |
| Valentia | 0.65 | 0.01 | 0.25 | 16.41 | 0.81 | 1.07 | 0.76 |
| Markree | 0.08 | 0.74 | 0.24 | 15.41 | 0.10 | 1.01 | 0.10 |
| Armagh | 1.10 | 0.00 | 0.26 | 15.95 | 1.36 | 1.14 | 1.18 |
| Belmullet | 0.97 | 0.00 | 0.22 | 15.63 | 1.21 | 0.97 | 1.24 |
| Island of Ireland | 0.74 | 0.00 | 0.19 | 16.13 | 0.91 | 0.82 | 1.12 |

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| **Coldest Day (TXn)** | **alpha (oC)** | **p-value** | **alpha.se** | **avg obs** | **signal** | **noise** | **SNR** |
| Phoenix Park | 1.30 | 0.00 | 0.42 | 0.92 | 1.61 | 1.82 | 0.89 |
| Glasnevin | 1.55 | 0.00 | 0.40 | 1.83 | 1.91 | 1.76 | 1.09 |
| Dublin | 1.32 | 0.00 | 0.36 | 1.74 | 1.63 | 1.58 | 1.03 |
| Roches Point | 0.70 | 0.08 | 0.40 | 2.81 | 0.87 | 1.68 | 0.52 |
| Malin Head | 0.96 | 0.00 | 0.30 | 2.68 | 1.19 | 1.32 | 0.90 |
| Birr | 1.19 | 0.01 | 0.46 | 0.42 | 1.47 | 1.96 | 0.75 |
| Galway | 0.95 | 0.04 | 0.45 | 1.58 | 1.18 | 1.91 | 0.62 |
| Valentia | 0.90 | 0.02 | 0.39 | 3.65 | 1.12 | 1.67 | 0.67 |
| Markree | 1.06 | 0.01 | 0.40 | 1.09 | 1.31 | 1.70 | 0.77 |
| Armagh | 0.56 | 0.19 | 0.43 | 0.61 | 0.70 | 1.81 | 0.39 |
| Belmullet | 0.79 | 0.03 | 0.37 | 3.13 | 0.98 | 1.55 | 0.63 |
| Island of Ireland | 1.03 | 0.00 | 0.33 | 1.86 | 1.27 | 1.44 | 0.88 |

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| --- | --- | --- | --- | --- | --- | --- | --- |
| **Hottest Day (TXx)** | **alpha (oC)** | **p-value** | **alpha.se** | **avg obs** | **signal** | **noise** | **SNR** |
| Phoenix Park | 0.33 | 0.43 | 0.42 | 25.74 | 0.41 | 1.77 | 0.23 |
| Glasnevin | 0.35 | 0.34 | 0.36 | 25.49 | 0.43 | 1.51 | 0.28 |
| Dublin | 0.48 | 0.20 | 0.37 | 24.96 | 0.59 | 1.55 | 0.38 |
| Roches Point | 0.78 | 0.03 | 0.36 | 23.19 | 0.97 | 1.54 | 0.63 |
| Malin Head | 0.45 | 0.31 | 0.44 | 23.46 | 0.56 | 1.85 | 0.30 |
| Birr | 0.51 | 0.26 | 0.45 | 26.01 | 0.63 | 1.86 | 0.34 |
| Galway | 0.04 | 0.94 | 0.52 | 25.97 | 0.05 | 2.17 | 0.02 |
| Valentia | 0.47 | 0.34 | 0.50 | 24.77 | 0.59 | 2.09 | 0.28 |
| Markree | 0.13 | 0.76 | 0.44 | 25.20 | 0.17 | 1.84 | 0.09 |
| Armagh | 0.92 | 0.04 | 0.44 | 26.04 | 1.14 | 1.88 | 0.61 |
| Belmullet | 1.06 | 0.03 | 0.48 | 24.22 | 1.32 | 2.03 | 0.65 |
| Island of Ireland | 0.50 | 0.16 | 0.35 | 25.00 | 0.61 | 1.47 | 0.42 |

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| **Warm Days (TX90p)** | **alpha (%)** | **p-value** | **alpha.se** | **avg obs** | **signal** | **noise** | **SNR** |
| Phoenix Park | 5.90 | 0.00 | 1.03 | 11.22 | 7.31 | 4.78 | 1.53 |
| Glasnevin | 6.18 | 0.00 | 0.97 | 11.19 | 7.65 | 4.62 | 1.66 |
| Dublin | 6.60 | 0.00 | 0.96 | 11.31 | 8.18 | 4.68 | 1.75 |
| Roches Point | 7.59 | 0.00 | 1.23 | 11.70 | 9.40 | 5.82 | 1.61 |
| Malin Head | 5.84 | 0.00 | 0.83 | 10.56 | 7.23 | 4.07 | 1.78 |
| Birr | 4.98 | 0.00 | 0.99 | 11.26 | 6.17 | 4.49 | 1.37 |
| Galway | 7.41 | 0.00 | 1.01 | 11.69 | 9.18 | 4.98 | 1.84 |
| Valentia | 6.35 | 0.00 | 0.97 | 10.49 | 7.86 | 4.65 | 1.69 |
| Markree | 2.97 | 0.00 | 0.94 | 10.99 | 3.68 | 4.04 | 0.91 |
| Armagh | 6.14 | 0.00 | 0.90 | 10.69 | 7.60 | 4.35 | 1.75 |
| Belmullet | 6.83 | 0.00 | 1.08 | 11.67 | 8.45 | 5.14 | 1.64 |
| Island of Ireland | 6.07 | 0.00 | 0.90 | 11.16 | 7.52 | 4.36 | 1.73 |

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| **Warm Nights (TN90p)** | **alpha (%)** | **p-value** | **alpha.se** | **avg obs** | **signal** | **noise** | **SNR** |
| Phoenix Park | 7.16 | 0.00 | 0.72 | 10.37 | 8.87 | 3.95 | 2.24 |
| Glasnevin | 6.33 | 0.00 | 0.81 | 10.65 | 7.83 | 4.08 | 1.92 |
| Dublin | 7.54 | 0.00 | 0.87 | 10.15 | 9.34 | 4.54 | 2.06 |
| Roches Point | 6.11 | 0.00 | 1.10 | 11.95 | 7.56 | 5.10 | 1.48 |
| Malin Head | 7.93 | 0.00 | 1.12 | 12.02 | 9.82 | 5.48 | 1.79 |
| Birr | 6.94 | 0.00 | 0.75 | 9.75 | 8.59 | 4.01 | 2.14 |
| Galway | 6.69 | 0.00 | 1.12 | 13.16 | 8.28 | 5.27 | 1.57 |
| Valentia | 6.47 | 0.00 | 0.94 | 12.32 | 8.01 | 4.56 | 1.76 |
| Markree | 3.94 | 0.00 | 0.99 | 12.23 | 4.88 | 4.36 | 1.12 |
| Armagh | 7.94 | 0.00 | 0.73 | 9.31 | 9.83 | 4.19 | 2.35 |
| Belmullet | 8.19 | 0.00 | 0.93 | 10.64 | 10.15 | 4.88 | 2.08 |
| Island of Ireland | 6.84 | 0.00 | 0.78 | 11.14 | 8.47 | 4.10 | 2.07 |

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| **Warm Spell Duration (WSDI)** | **alpha (days)** | **p-value** | **alpha.se** | **avg obs** | **signal** | **noise** | **SNR** |
| Phoenix Park | 3.18 | 0.05 | 1.61 | 4.75 | 3.93 | 6.83 | 0.58 |
| Glasnevin | 3.59 | 0.01 | 1.44 | 4.22 | 4.45 | 6.16 | 0.72 |
| Dublin | 2.67 | 0.06 | 1.42 | 3.78 | 3.30 | 5.99 | 0.55 |
| Roches Point | 5.35 | 0.01 | 1.90 | 4.88 | 6.63 | 8.15 | 0.81 |
| Malin Head | 5.06 | 0.00 | 1.22 | 3.99 | 6.27 | 5.42 | 1.16 |
| Birr | 3.32 | 0.09 | 1.93 | 6.05 | 4.11 | 8.11 | 0.51 |
| Galway | 6.20 | 0.00 | 2.10 | 8.41 | 7.67 | 9.02 | 0.85 |
| Valentia | 3.96 | 0.02 | 1.62 | 5.63 | 4.90 | 6.90 | 0.71 |
| Markree | 2.19 | 0.22 | 1.78 | 5.63 | 2.72 | 7.45 | 0.36 |
| Armagh | 4.00 | 0.02 | 1.64 | 5.07 | 4.95 | 7.00 | 0.71 |
| Belmullet | 6.36 | 0.00 | 2.05 | 7.52 | 7.88 | 8.86 | 0.89 |
| Island of Ireland | 4.17 | 0.00 | 1.25 | 5.45 | 5.16 | 5.44 | 0.95 |

**Winter Temperature ETCCDI indices**

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| **Warm Days (TX90p)** | **alpha (%)** | **p-value** | **alpha.se** | **avg obs** | **signal** | **noise** | **SNR** |
| Phoenix Park | 4.78 | 0.00 | 1.54 | 11.88 | 5.91 | 6.61 | 0.89 |
| Glasnevin | 3.95 | 0.01 | 1.53 | 11.39 | 4.89 | 6.50 | 0.75 |
| Dublin | 3.29 | 0.03 | 1.51 | 11.63 | 4.07 | 6.38 | 0.64 |
| Roches Point | 7.66 | 0.00 | 1.94 | 12.05 | 9.49 | 8.52 | 1.11 |
| Malin Head | 6.17 | 0.00 | 1.66 | 11.00 | 7.64 | 7.23 | 1.06 |
| Birr | 5.28 | 0.00 | 1.50 | 11.18 | 6.54 | 6.51 | 1.01 |
| Galway | 9.54 | 0.00 | 1.79 | 12.05 | 11.81 | 8.19 | 1.44 |
| Valentia | 8.98 | 0.00 | 1.50 | 10.48 | 11.12 | 7.04 | 1.58 |
| Markree | 3.15 | 0.05 | 1.58 | 11.01 | 3.90 | 6.66 | 0.59 |
| Armagh | 4.65 | 0.00 | 1.54 | 11.39 | 5.76 | 6.61 | 0.87 |
| Belmullet | 7.30 | 0.00 | 2.00 | 12.90 | 9.04 | 8.72 | 1.04 |
| Island of Ireland | 5.88 | 0.00 | 1.47 | 11.54 | 7.29 | 6.45 | 1.13 |

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| **Cool Days (TX10p)** | **alpha (%)** | **p-value** | **alpha.se** | **avg obs** | **signal** | **noise** | **SNR** |
| Phoenix Park | -3.90 | 0.05 | 1.98 | 9.58 | -4.83 | 8.34 | -0.58 |
| Glasnevin | -3.63 | 0.06 | 1.93 | 9.10 | -4.49 | 8.10 | -0.55 |
| Dublin | -3.78 | 0.07 | 2.05 | 9.85 | -4.68 | 8.61 | -0.54 |
| Roches Point | -2.38 | 0.19 | 1.80 | 7.82 | -2.95 | 7.51 | -0.39 |
| Malin Head | -5.28 | 0.00 | 1.81 | 9.29 | -6.54 | 7.75 | -0.84 |
| Birr | -4.25 | 0.03 | 1.99 | 9.32 | -5.27 | 8.39 | -0.63 |
| Galway | -2.91 | 0.15 | 1.99 | 8.97 | -3.61 | 8.35 | -0.43 |
| Valentia | -4.33 | 0.02 | 1.90 | 8.62 | -5.36 | 8.04 | -0.67 |
| Markree | -4.37 | 0.02 | 1.92 | 8.77 | -5.41 | 8.11 | -0.67 |
| Armagh | -3.22 | 0.07 | 1.76 | 8.54 | -3.99 | 7.41 | -0.54 |
| Belmullet | -4.73 | 0.02 | 1.96 | 8.88 | -5.86 | 8.31 | -0.71 |
| Island of Ireland | -3.89 | 0.03 | 1.82 | 8.98 | -4.82 | 7.68 | -0.63 |

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| **Cool Nights (TN10p)** | **alpha (%)** | **p-value** | **alpha.se** | **avg obs** | **signal** | **noise** | **SNR** |
| Phoenix Park | -5.24 | 0.00 | 1.54 | 10.53 | -6.49 | 6.66 | -0.98 |
| Glasnevin | -4.02 | 0.01 | 1.51 | 10.57 | -4.98 | 6.42 | -0.77 |
| Dublin | -4.11 | 0.01 | 1.65 | 10.06 | -5.09 | 7.01 | -0.73 |
| Roches Point | -3.49 | 0.04 | 1.69 | 9.21 | -4.32 | 7.12 | -0.61 |
| Malin Head | -2.17 | 0.19 | 1.65 | 9.02 | -2.68 | 6.90 | -0.39 |
| Birr | -3.29 | 0.05 | 1.66 | 10.64 | -4.07 | 7.01 | -0.58 |
| Galway | 1.75 | 0.31 | 1.71 | 9.38 | 2.17 | 7.12 | 0.30 |
| Valentia | -0.81 | 0.62 | 1.64 | 8.89 | -1.00 | 6.82 | -0.15 |
| Markree | -1.65 | 0.31 | 1.63 | 8.45 | -2.04 | 6.78 | -0.30 |
| Armagh | -2.16 | 0.18 | 1.62 | 9.75 | -2.68 | 6.77 | -0.40 |
| Belmullet | 1.27 | 0.44 | 1.64 | 7.11 | 1.58 | 6.81 | 0.23 |
| Island of Ireland | -2.17 | 0.14 | 1.48 | 9.42 | -2.69 | 6.18 | -0.44 |

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| **Warm Nights (TN90p)** | **alpha (%)** | **p-value** | **alpha.se** | **avg obs** | **signal** | **noise** | **SNR** |
| Phoenix Park | 2.25 | 0.11 | 1.40 | 11.37 | 2.78 | 5.88 | 0.47 |
| Glasnevin | 2.75 | 0.06 | 1.46 | 11.09 | 3.41 | 6.13 | 0.56 |
| Dublin | 1.69 | 0.26 | 1.50 | 10.82 | 2.09 | 6.25 | 0.33 |
| Roches Point | 3.10 | 0.05 | 1.59 | 10.93 | 3.84 | 6.68 | 0.58 |
| Malin Head | 6.35 | 0.00 | 1.58 | 11.01 | 7.87 | 6.96 | 1.13 |
| Birr | 3.95 | 0.00 | 1.27 | 9.50 | 4.89 | 5.45 | 0.90 |
| Galway | 2.48 | 0.10 | 1.51 | 11.61 | 3.07 | 6.31 | 0.49 |
| Valentia | 3.71 | 0.01 | 1.48 | 11.83 | 4.60 | 6.31 | 0.73 |
| Markree | 0.25 | 0.86 | 1.41 | 11.51 | 0.30 | 5.86 | 0.05 |
| Armagh | 5.12 | 0.00 | 1.30 | 9.83 | 6.34 | 5.69 | 1.11 |
| Belmullet | 5.18 | 0.00 | 1.53 | 10.13 | 6.41 | 6.63 | 0.97 |
| Island of Ireland | 3.35 | 0.01 | 1.30 | 10.88 | 4.15 | 5.52 | 0.75 |

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| **Hottest Night (TNx)** | **alpha (oC)** | **p-value** | **alpha.se** | **avg obs** | **signal** | **noise** | **SNR** |
| Phoenix Park | 0.64 | 0.02 | 0.27 | 10.00 | 0.79 | 1.14 | 0.69 |
| Glasnevin | 0.52 | 0.05 | 0.26 | 10.92 | 0.64 | 1.11 | 0.57 |
| Dublin | 0.46 | 0.07 | 0.25 | 10.83 | 0.58 | 1.05 | 0.55 |
| Roches Point | 0.49 | 0.00 | 0.16 | 10.10 | 0.61 | 0.70 | 0.87 |
| Malin Head | 1.36 | 0.00 | 0.26 | 8.75 | 1.68 | 1.17 | 1.43 |
| Birr | 0.99 | 0.00 | 0.24 | 9.65 | 1.22 | 1.07 | 1.14 |
| Galway | 0.75 | 0.00 | 0.24 | 8.49 | 0.93 | 1.02 | 0.91 |
| Valentia | 0.46 | 0.01 | 0.18 | 10.83 | 0.57 | 0.77 | 0.74 |
| Markree | 0.06 | 0.82 | 0.28 | 8.99 | 0.08 | 1.17 | 0.07 |
| Armagh | 1.19 | 0.00 | 0.26 | 9.37 | 1.47 | 1.17 | 1.25 |
| Belmullet | 1.09 | 0.00 | 0.19 | 9.64 | 1.35 | 0.88 | 1.53 |
| Island of Ireland | 0.73 | 0.00 | 0.19 | 9.78 | 0.90 | 0.82 | 1.09 |

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| **Coldest Night (TNn)** | **alpha (oC)** | **p-value** | **alpha.se** | **avg obs** | **signal** | **noise** | **SNR** |
| Phoenix Park | 2.19 | 0.00 | 0.58 | -6.49 | 2.71 | 2.55 | 1.06 |
| Glasnevin | 1.83 | 0.00 | 0.56 | -5.34 | 2.27 | 2.42 | 0.94 |
| Dublin | 1.58 | 0.00 | 0.47 | -3.28 | 1.96 | 2.03 | 0.96 |
| Roches Point | 1.06 | 0.00 | 0.36 | -1.75 | 1.31 | 1.56 | 0.84 |
| Malin Head | 0.27 | 0.52 | 0.41 | -2.66 | 0.33 | 1.72 | 0.19 |
| Birr | 1.46 | 0.02 | 0.60 | -7.07 | 1.81 | 2.55 | 0.71 |
| Galway | 0.32 | 0.56 | 0.55 | -5.82 | 0.39 | 2.28 | 0.17 |
| Valentia | 0.60 | 0.16 | 0.43 | -2.87 | 0.75 | 1.78 | 0.42 |
| Markree | 2.19 | 0.00 | 0.64 | -7.77 | 2.71 | 2.78 | 0.98 |
| Armagh | 1.32 | 0.03 | 0.60 | -6.63 | 1.63 | 2.55 | 0.64 |
| Belmullet | -0.37 | 0.40 | 0.43 | -2.38 | -0.46 | 1.80 | -0.25 |
| Island of Ireland | 1.13 | 0.01 | 0.44 | -4.73 | 1.40 | 1.88 | 0.75 |

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| **Hottest Day (TXx)** | **alpha (oC)** | **p-value** | **alpha.se** | **avg obs** | **signal** | **noise** | **SNR** |
| Phoenix Park | 0.56 | 0.03 | 0.26 | 14.25 | 0.69 | 1.10 | 0.63 |
| Glasnevin | 0.59 | 0.02 | 0.25 | 14.87 | 0.73 | 1.08 | 0.68 |
| Dublin | 0.60 | 0.01 | 0.24 | 14.61 | 0.75 | 1.03 | 0.72 |
| Roches Point | 0.85 | 0.00 | 0.17 | 12.84 | 1.05 | 0.78 | 1.34 |
| Malin Head | 0.84 | 0.00 | 0.25 | 12.95 | 1.04 | 1.06 | 0.98 |
| Birr | 0.74 | 0.00 | 0.20 | 13.55 | 0.92 | 0.89 | 1.03 |
| Galway | 0.93 | 0.00 | 0.22 | 13.05 | 1.15 | 0.97 | 1.18 |
| Valentia | 0.81 | 0.00 | 0.19 | 13.48 | 1.00 | 0.85 | 1.18 |
| Markree | 0.20 | 0.36 | 0.22 | 12.92 | 0.25 | 0.91 | 0.27 |
| Armagh | 0.97 | 0.00 | 0.22 | 13.39 | 1.20 | 0.96 | 1.25 |
| Belmullet | 0.21 | 0.36 | 0.22 | 12.95 | 0.25 | 0.92 | 0.28 |
| Island of Ireland | 0.66 | 0.00 | 0.17 | 13.53 | 0.82 | 0.75 | 1.10 |

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| **Coldest Day (TXn)** | **alpha (oC)** | **p-value** | **alpha.se** | **avg obs** | **signal** | **noise** | **SNR** |
| Phoenix Park | 0.83 | 0.08 | 0.47 | 1.26 | 1.03 | 1.99 | 0.52 |
| Glasnevin | 1.00 | 0.03 | 0.45 | 2.19 | 1.24 | 1.91 | 0.65 |
| Dublin | 0.86 | 0.04 | 0.41 | 2.07 | 1.07 | 1.75 | 0.61 |
| Roches Point | 0.39 | 0.37 | 0.44 | 3.09 | 0.49 | 1.83 | 0.27 |
| Malin Head | 0.84 | 0.01 | 0.33 | 2.89 | 1.04 | 1.39 | 0.75 |
| Birr | 0.70 | 0.18 | 0.51 | 0.76 | 0.86 | 2.15 | 0.40 |
| Galway | 0.77 | 0.12 | 0.49 | 1.82 | 0.95 | 2.06 | 0.46 |
| Valentia | 0.87 | 0.05 | 0.44 | 3.96 | 1.08 | 1.86 | 0.58 |
| Markree | 1.15 | 0.01 | 0.42 | 1.27 | 1.42 | 1.80 | 0.79 |
| Armagh | 0.47 | 0.33 | 0.48 | 0.79 | 0.58 | 1.98 | 0.29 |
| Belmullet | 0.91 | 0.02 | 0.38 | 3.26 | 1.12 | 1.59 | 0.70 |
| Island of Ireland | 0.80 | 0.04 | 0.38 | 2.12 | 0.99 | 1.60 | 0.62 |

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| **Ice Days (ID)** | **alpha (days)** | **p-value** | **alpha.se** | **avg obs** | **signal** | **noise** | **SNR** |
| Phoenix Park | -0.03 | 0.91 | 0.23 | 0.47 | -0.03 | 0.95 | -0.03 |
| Glasnevin | -0.09 | 0.32 | 0.09 | 0.16 | -0.12 | 0.39 | -0.30 |
| Dublin | -0.01 | 0.92 | 0.11 | 0.18 | -0.01 | 0.47 | -0.03 |
| Roches Point | 0.06 | 0.41 | 0.07 | 0.05 | 0.07 | 0.28 | 0.24 |
| Malin Head | -0.03 | 0.54 | 0.05 | 0.04 | -0.04 | 0.23 | -0.18 |
| Birr | -0.02 | 0.96 | 0.31 | 0.68 | -0.02 | 1.29 | -0.01 |
| Galway | 0.14 | 0.49 | 0.21 | 0.29 | 0.18 | 0.87 | 0.21 |
| Valentia | 0.01 | 0.79 | 0.05 | 0.03 | 0.02 | 0.21 | 0.08 |
| Markree | 0.05 | 0.86 | 0.25 | 0.37 | 0.06 | 1.04 | 0.05 |
| Armagh | 0.18 | 0.54 | 0.30 | 0.58 | 0.23 | 1.24 | 0.18 |
| Belmullet | -0.03 | 0.39 | 0.04 | 0.02 | -0.04 | 0.15 | -0.26 |
| Island of Ireland | 0.02 | 0.86 | 0.12 | 0.26 | 0.03 | 0.51 | 0.05 |

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| **Diurnal Temperature Range (DTR)** | **alpha (oC)** | **p-value** | **alpha.se** | **avg obs** | **signal** | **noise** | **SNR** |
| Phoenix Park | -0.11 | 0.33 | 0.11 | 6.05 | -0.13 | 0.46 | -0.29 |
| Glasnevin | -0.11 | 0.35 | 0.11 | 5.70 | -0.13 | 0.47 | -0.28 |
| Dublin | 0.03 | 0.74 | 0.10 | 4.75 | 0.04 | 0.43 | 0.10 |
| Roches Point | 0.09 | 0.28 | 0.08 | 4.50 | 0.11 | 0.35 | 0.32 |
| Malin Head | -0.06 | 0.55 | 0.09 | 5.00 | -0.07 | 0.38 | -0.18 |
| Birr | -0.18 | 0.11 | 0.11 | 6.17 | -0.22 | 0.46 | -0.48 |
| Galway | 0.36 | 0.00 | 0.11 | 6.63 | 0.44 | 0.48 | 0.93 |
| Valentia | 0.24 | 0.02 | 0.10 | 4.95 | 0.30 | 0.43 | 0.70 |
| Markree | 0.20 | 0.08 | 0.11 | 6.38 | 0.25 | 0.48 | 0.53 |
| Armagh | -0.03 | 0.72 | 0.09 | 6.02 | -0.04 | 0.39 | -0.11 |
| Belmullet | 0.20 | 0.06 | 0.11 | 4.90 | 0.25 | 0.44 | 0.56 |
| Island of Ireland | 0.06 | 0.43 | 0.07 | 5.55 | 0.07 | 0.31 | 0.23 |

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| **Frost Days (FD)** | **alpha (days)** | **p-value** | **alpha.se** | **avg obs** | **signal** | **noise** | **SNR** |
| Phoenix Park | -5.81 | 0.01 | 2.18 | 25.56 | -7.20 | 9.28 | -0.78 |
| Glasnevin | -4.96 | 0.01 | 1.83 | 18.68 | -6.14 | 7.80 | -0.79 |
| Dublin | -3.84 | 0.02 | 1.66 | 10.28 | -4.76 | 7.01 | -0.68 |
| Roches Point | -2.84 | 0.04 | 1.36 | 6.26 | -3.51 | 5.74 | -0.61 |
| Malin Head | -2.32 | 0.19 | 1.76 | 10.37 | -2.88 | 7.36 | -0.39 |
| Birr | -9.20 | 0.00 | 2.53 | 27.41 | -11.39 | 11.01 | -1.04 |
| Galway | -0.49 | 0.86 | 2.68 | 26.82 | -0.60 | 11.14 | -0.05 |
| Valentia | -0.28 | 0.86 | 1.55 | 8.23 | -0.35 | 6.43 | -0.05 |
| Markree | -4.88 | 0.06 | 2.56 | 29.74 | -6.04 | 10.77 | -0.56 |
| Armagh | -5.36 | 0.04 | 2.64 | 26.75 | -6.64 | 11.12 | -0.60 |
| Belmullet | 0.89 | 0.61 | 1.73 | 8.37 | 1.10 | 7.20 | 0.15 |
| Island of Ireland | -3.55 | 0.06 | 1.85 | 18.04 | -4.40 | 7.78 | -0.57 |

**Spring Temperature ETCCDI indices**

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| **Cool Days (TX10p)** | **alpha (%)** | **p-value** | **alpha.se** | **avg obs** | **signal** | **noise** | **SNR** |
| Phoenix Park | -9.68 | 0.00 | 1.83 | 12.12 | -11.99 | 8.38 | -1.43 |
| Glasnevin | -10.78 | 0.00 | 1.81 | 12.25 | -13.35 | 8.51 | -1.57 |
| Dublin | -11.37 | 0.00 | 1.84 | 12.24 | -14.08 | 8.72 | -1.61 |
| Roches Point | -5.68 | 0.00 | 1.61 | 8.78 | -7.03 | 7.00 | -1.00 |
| Malin Head | -10.89 | 0.00 | 1.93 | 12.14 | -13.48 | 8.97 | -1.50 |
| Birr | -9.14 | 0.00 | 1.72 | 11.62 | -11.32 | 7.90 | -1.43 |
| Galway | -10.19 | 0.00 | 1.91 | 12.51 | -12.61 | 8.78 | -1.44 |
| Valentia | -10.08 | 0.00 | 1.82 | 11.28 | -12.48 | 8.42 | -1.48 |
| Markree | -9.11 | 0.00 | 1.72 | 11.43 | -11.29 | 7.89 | -1.43 |
| Armagh | -7.85 | 0.00 | 1.70 | 11.58 | -9.72 | 7.61 | -1.28 |
| Belmullet | -9.24 | 0.00 | 2.08 | 12.44 | -11.45 | 9.28 | -1.23 |
| Island of Ireland | -9.45 | 0.00 | 1.65 | 11.67 | -11.71 | 7.69 | -1.52 |

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| **Cool Nights (TN10p)** | **alpha (%)** | **p-value** | **alpha.se** | **avg obs** | **signal** | **noise** | **SNR** |
| Phoenix Park | -11.92 | 0.00 | 1.44 | 13.10 | -14.76 | 7.41 | -1.99 |
| Glasnevin | -12.19 | 0.00 | 1.51 | 14.09 | -15.09 | 7.70 | -1.96 |
| Dublin | -13.38 | 0.00 | 1.64 | 13.88 | -16.57 | 8.37 | -1.98 |
| Roches Point | -7.06 | 0.00 | 1.60 | 10.62 | -8.74 | 7.13 | -1.23 |
| Malin Head | -3.42 | 0.02 | 1.40 | 8.77 | -4.23 | 5.98 | -0.71 |
| Birr | -7.36 | 0.00 | 1.47 | 13.05 | -9.11 | 6.68 | -1.36 |
| Galway | -2.11 | 0.14 | 1.41 | 9.91 | -2.62 | 5.93 | -0.44 |
| Valentia | -3.37 | 0.00 | 1.15 | 9.05 | -4.18 | 4.94 | -0.85 |
| Markree | -5.26 | 0.00 | 1.22 | 9.54 | -6.51 | 5.44 | -1.20 |
| Armagh | -7.16 | 0.00 | 1.44 | 12.09 | -8.86 | 6.53 | -1.36 |
| Belmullet | -1.86 | 0.18 | 1.37 | 8.02 | -2.30 | 5.73 | -0.40 |
| Island of Ireland | -6.83 | 0.00 | 1.19 | 11.10 | -8.45 | 5.55 | -1.52 |

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| **Diurnal Temperature Range (DTR)** | **alpha (oC)** | **p-value** | **alpha.se** | **avg obs** | **signal** | **noise** | **SNR** |
| Phoenix Park | -0.39 | 0.01 | 0.16 | 8.25 | -0.48 | 0.67 | -0.72 |
| Glasnevin | -0.13 | 0.38 | 0.15 | 6.92 | -0.16 | 0.62 | -0.26 |
| Dublin | 0.01 | 0.93 | 0.11 | 5.81 | 0.01 | 0.47 | 0.03 |
| Roches Point | -0.03 | 0.71 | 0.09 | 5.37 | -0.04 | 0.37 | -0.11 |
| Malin Head | 0.35 | 0.00 | 0.10 | 4.99 | 0.43 | 0.44 | 0.98 |
| Birr | -0.22 | 0.15 | 0.15 | 8.39 | -0.27 | 0.63 | -0.43 |
| Galway | 0.65 | 0.00 | 0.13 | 7.95 | 0.81 | 0.58 | 1.39 |
| Valentia | 0.22 | 0.10 | 0.13 | 5.81 | 0.27 | 0.56 | 0.48 |
| Markree | 0.12 | 0.43 | 0.15 | 8.57 | 0.15 | 0.64 | 0.23 |
| Armagh | -0.20 | 0.15 | 0.14 | 8.44 | -0.24 | 0.58 | -0.42 |
| Belmullet | 0.16 | 0.16 | 0.11 | 6.07 | 0.19 | 0.46 | 0.42 |
| Island of Ireland | 0.05 | 0.61 | 0.10 | 6.96 | 0.06 | 0.40 | 0.15 |

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| **Frost Days (FD)** | **alpha (days)** | **p-value** | **alpha.se** | **avg obs** | **signal** | **noise** | **SNR** |
| Phoenix Park | -9.88 | 0.00 | 1.37 | 11.64 | -12.24 | 6.75 | -1.81 |
| Glasnevin | -5.47 | 0.00 | 1.04 | 6.03 | -6.78 | 4.78 | -1.42 |
| Dublin | -3.11 | 0.00 | 0.71 | 2.78 | -3.85 | 3.17 | -1.21 |
| Roches Point | -1.35 | 0.01 | 0.51 | 1.51 | -1.68 | 2.19 | -0.77 |
| Malin Head | -1.52 | 0.02 | 0.65 | 2.09 | -1.88 | 2.76 | -0.68 |
| Birr | -7.41 | 0.00 | 1.57 | 13.63 | -9.18 | 7.06 | -1.30 |
| Galway | -2.09 | 0.12 | 1.34 | 8.22 | -2.59 | 5.64 | -0.46 |
| Valentia | -1.09 | 0.08 | 0.61 | 2.52 | -1.34 | 2.58 | -0.52 |
| Markree | -5.54 | 0.00 | 1.55 | 14.75 | -6.86 | 6.77 | -1.01 |
| Armagh | -6.69 | 0.00 | 1.45 | 11.25 | -8.28 | 6.51 | -1.27 |
| Belmullet |  |  |  |  |  |  |  |
| Island of Ireland | -4.42 | 0.00 | 0.92 | 7.44 | -5.47 | 4.17 | -1.31 |

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| **Warm Days (TX90p)** | **alpha (%)** | **p-value** | **alpha.se** | **avg obs** | **signal** | **noise** | **SNR** |
| Phoenix Park | 8.34 | 0.00 | 1.69 | 12.01 | 10.32 | 7.65 | 1.35 |
| Glasnevin | 8.94 | 0.00 | 1.59 | 11.98 | 11.07 | 7.37 | 1.50 |
| Dublin | 11.48 | 0.00 | 1.53 | 12.22 | 14.21 | 7.63 | 1.86 |
| Roches Point | 8.14 | 0.00 | 1.75 | 12.52 | 10.08 | 7.85 | 1.28 |
| Malin Head | 7.05 | 0.00 | 1.51 | 11.00 | 8.73 | 6.81 | 1.28 |
| Birr | 6.06 | 0.00 | 1.81 | 13.16 | 7.50 | 7.86 | 0.95 |
| Galway | 10.56 | 0.00 | 1.88 | 12.68 | 13.08 | 8.71 | 1.50 |
| Valentia | 9.63 | 0.00 | 1.81 | 11.64 | 11.93 | 8.32 | 1.43 |
| Markree | 4.27 | 0.02 | 1.76 | 12.43 | 5.29 | 7.48 | 0.71 |
| Armagh | 7.49 | 0.00 | 1.57 | 10.97 | 9.27 | 7.09 | 1.31 |
| Belmullet | 10.50 | 0.00 | 1.77 | 11.81 | 13.00 | 8.31 | 1.56 |
| Island of Ireland | 8.40 | 0.00 | 1.50 | 12.04 | 10.41 | 6.94 | 1.50 |

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| **Warm Nights (TN90p)** | **alpha (%)** | **p-value** | **alpha.se** | **avg obs** | **signal** | **noise** | **SNR** |
| Phoenix Park | 9.74 | 0.00 | 1.27 | 11.06 | 12.06 | 6.36 | 1.90 |
| Glasnevin | 10.11 | 0.00 | 1.54 | 12.61 | 12.52 | 7.41 | 1.69 |
| Dublin | 11.38 | 0.00 | 1.65 | 11.88 | 14.09 | 8.02 | 1.76 |
| Roches Point | 8.06 | 0.00 | 1.95 | 12.96 | 9.99 | 8.64 | 1.16 |
| Malin Head | 11.54 | 0.00 | 1.96 | 13.19 | 14.29 | 9.16 | 1.56 |
| Birr | 8.85 | 0.00 | 1.35 | 10.86 | 10.96 | 6.49 | 1.69 |
| Galway | 8.54 | 0.00 | 2.03 | 15.41 | 10.58 | 8.99 | 1.18 |
| Valentia | 6.60 | 0.00 | 1.81 | 13.54 | 8.18 | 7.92 | 1.03 |
| Markree | 5.03 | 0.01 | 1.94 | 14.09 | 6.23 | 8.27 | 0.75 |
| Armagh | 10.35 | 0.00 | 1.31 | 10.75 | 12.82 | 6.61 | 1.94 |
| Belmullet | 12.46 | 0.00 | 1.85 | 11.54 | 15.43 | 8.93 | 1.73 |
| Island of Ireland | 9.33 | 0.00 | 1.50 | 12.53 | 11.56 | 7.09 | 1.63 |

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| **Coldest Night (TNn)** | **alpha (oC)** | **p-value** | **alpha.se** | **avg obs** | **signal** | **noise** | **SNR** |
| Phoenix Park | 1.80 | 0.00 | 0.39 | -3.82 | 2.22 | 1.76 | 1.26 |
| Glasnevin | 1.59 | 0.00 | 0.40 | -2.48 | 1.97 | 1.78 | 1.11 |
| Dublin | 1.42 | 0.00 | 0.38 | -1.07 | 1.76 | 1.66 | 1.06 |
| Roches Point | 0.54 | 0.13 | 0.35 | -0.09 | 0.67 | 1.49 | 0.45 |
| Malin Head | 0.51 | 0.19 | 0.38 | -0.78 | 0.63 | 1.60 | 0.39 |
| Birr | 0.75 | 0.08 | 0.42 | -4.20 | 0.93 | 1.76 | 0.53 |
| Galway | 0.09 | 0.84 | 0.42 | -2.76 | 0.11 | 1.76 | 0.06 |
| Valentia | -0.07 | 0.85 | 0.37 | -1.01 | -0.09 | 1.54 | -0.06 |
| Markree | 1.57 | 0.00 | 0.49 | -4.87 | 1.95 | 2.12 | 0.92 |
| Armagh | 0.84 | 0.07 | 0.47 | -3.68 | 1.04 | 1.98 | 0.53 |
| Belmullet | 0.17 | 0.66 | 0.39 | -0.79 | 0.21 | 1.63 | 0.13 |
| Island of Ireland | 0.84 | 0.02 | 0.35 | -2.32 | 1.04 | 1.49 | 0.70 |

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| **Hottest Night (TNx)** | **alpha (oC)** | **p-value** | **alpha.se** | **avg obs** | **signal** | **noise** | **SNR** |
| Phoenix Park | 0.93 | 0.00 | 0.25 | 11.80 | 1.15 | 1.10 | 1.05 |
| Glasnevin | 0.71 | 0.00 | 0.24 | 12.93 | 0.88 | 1.05 | 0.84 |
| Dublin | 1.09 | 0.00 | 0.27 | 12.47 | 1.35 | 1.17 | 1.15 |
| Roches Point | 0.83 | 0.00 | 0.23 | 11.74 | 1.03 | 1.02 | 1.01 |
| Malin Head | 1.02 | 0.00 | 0.27 | 11.24 | 1.27 | 1.18 | 1.07 |
| Birr | 0.96 | 0.00 | 0.24 | 11.39 | 1.19 | 1.05 | 1.14 |
| Galway | 0.56 | 0.07 | 0.30 | 10.77 | 0.69 | 1.27 | 0.55 |
| Valentia | 0.51 | 0.12 | 0.32 | 12.36 | 0.63 | 1.36 | 0.46 |
| Markree | 0.23 | 0.43 | 0.29 | 10.78 | 0.28 | 1.21 | 0.23 |
| Armagh | 1.32 | 0.00 | 0.27 | 11.38 | 1.64 | 1.24 | 1.33 |
| Belmullet | 1.24 | 0.00 | 0.31 | 11.54 | 1.54 | 1.36 | 1.13 |
| Island of Ireland | 0.85 | 0.00 | 0.20 | 11.67 | 1.06 | 0.89 | 1.18 |

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| **Hottest Day (TXx)** | **alpha (oC)** | **p-value** | **alpha.se** | **avg obs** | **signal** | **noise** | **SNR** |
| Phoenix Park | 1.53 | 0.00 | 0.42 | 20.84 | 1.90 | 1.82 | 1.04 |
| Glasnevin | 1.38 | 0.00 | 0.40 | 20.76 | 1.70 | 1.72 | 0.99 |
| Dublin | 1.77 | 0.00 | 0.41 | 19.72 | 2.19 | 1.84 | 1.19 |
| Roches Point | 1.12 | 0.02 | 0.47 | 18.85 | 1.38 | 2.00 | 0.69 |
| Malin Head | 1.54 | 0.00 | 0.49 | 18.67 | 1.90 | 2.10 | 0.90 |
| Birr | 0.96 | 0.08 | 0.53 | 21.40 | 1.18 | 2.25 | 0.53 |
| Galway | 1.47 | 0.01 | 0.59 | 21.60 | 1.82 | 2.53 | 0.72 |
| Valentia | 1.22 | 0.05 | 0.62 | 20.56 | 1.51 | 2.63 | 0.58 |
| Markree | 0.86 | 0.12 | 0.55 | 21.53 | 1.07 | 2.32 | 0.46 |
| Armagh | 1.25 | 0.01 | 0.50 | 21.48 | 1.55 | 2.15 | 0.72 |
| Belmullet | 1.91 | 0.00 | 0.61 | 20.35 | 2.36 | 2.65 | 0.89 |
| Island of Ireland | 1.36 | 0.00 | 0.41 | 20.52 | 1.69 | 1.78 | 0.95 |

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| **Hottest Night (TXn)** | **alpha (oC)** | **p-value** | **alpha.se** | **avg obs** | **signal** | **noise** | **SNR** |
| Phoenix Park | 1.21 | 0.01 | 0.44 | 4.93 | 1.50 | 1.87 | 0.80 |
| Glasnevin | 1.39 | 0.00 | 0.44 | 5.04 | 1.72 | 1.89 | 0.91 |
| Dublin | 1.06 | 0.01 | 0.42 | 4.73 | 1.32 | 1.78 | 0.74 |
| Roches Point | 0.90 | 0.03 | 0.42 | 5.45 | 1.11 | 1.76 | 0.63 |
| Malin Head | 1.24 | 0.00 | 0.35 | 4.56 | 1.54 | 1.51 | 1.02 |
| Birr | 1.11 | 0.01 | 0.41 | 4.61 | 1.38 | 1.75 | 0.79 |
| Galway | 1.05 | 0.02 | 0.43 | 5.27 | 1.30 | 1.83 | 0.71 |
| Valentia | 1.29 | 0.00 | 0.39 | 6.17 | 1.60 | 1.69 | 0.95 |
| Markree | 1.36 | 0.00 | 0.41 | 4.87 | 1.69 | 1.78 | 0.95 |
| Armagh | 1.10 | 0.01 | 0.39 | 4.72 | 1.37 | 1.69 | 0.81 |
| Belmullet | 0.76 | 0.05 | 0.38 | 5.80 | 0.95 | 1.60 | 0.59 |
| Island of Ireland | 1.14 | 0.00 | 0.37 | 5.10 | 1.41 | 1.59 | 0.89 |

**Summer Temperature ETCCDI indices**

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| **Cool Days (TX10p)** | **alpha (%)** | **p-value** | **alpha.se** | **avg obs** | **signal** | **noise** | **SNR** |
| Phoenix Park | -7.11 | 0.00 | 1.52 | 9.89 | -8.80 | 6.83 | -1.29 |
| Glasnevin | -8.50 | 0.00 | 1.60 | 9.67 | -10.53 | 7.35 | -1.43 |
| Dublin | -6.95 | 0.00 | 1.58 | 9.94 | -8.60 | 7.04 | -1.22 |
| Roches Point | -2.63 | 0.11 | 1.65 | 8.03 | -3.26 | 6.94 | -0.47 |
| Malin Head | -11.93 | 0.00 | 2.02 | 11.46 | -14.78 | 9.47 | -1.56 |
| Birr | -9.51 | 0.00 | 1.64 | 10.15 | -11.78 | 7.66 | -1.54 |
| Galway | -9.15 | 0.00 | 1.81 | 10.48 | -11.33 | 8.26 | -1.37 |
| Valentia | -6.89 | 0.00 | 1.91 | 8.64 | -8.53 | 8.34 | -1.02 |
| Markree | -8.50 | 0.00 | 1.66 | 10.09 | -10.52 | 7.57 | -1.39 |
| Armagh | -4.82 | 0.00 | 1.34 | 8.75 | -5.97 | 5.84 | -1.02 |
| Belmullet | -10.14 | 0.00 | 2.14 | 10.90 | -12.56 | 9.65 | -1.30 |
| Island of Ireland | -7.83 | 0.00 | 1.47 | 9.82 | -9.69 | 6.75 | -1.44 |

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| **Cool Nights (TN10p)** | **alpha (%)** | **p-value** | **alpha.se** | **avg obs** | **signal** | **noise** | **SNR** |
| Phoenix Park | -9.06 | 0.00 | 1.29 | 10.84 | -11.21 | 6.29 | -1.78 |
| Glasnevin | -10.72 | 0.00 | 1.25 | 11.49 | -13.27 | 6.50 | -2.04 |
| Dublin | -10.94 | 0.00 | 1.38 | 11.07 | -13.55 | 6.97 | -1.94 |
| Roches Point | -3.87 | 0.00 | 1.22 | 7.35 | -4.79 | 5.28 | -0.91 |
| Malin Head | 0.29 | 0.80 | 1.19 | 7.04 | 0.37 | 4.96 | 0.07 |
| Birr | -5.93 | 0.00 | 1.18 | 11.13 | -7.35 | 5.35 | -1.37 |
| Galway | -2.74 | 0.05 | 1.36 | 9.34 | -3.39 | 5.76 | -0.59 |
| Valentia | -2.25 | 0.03 | 1.02 | 7.89 | -2.79 | 4.34 | -0.64 |
| Markree | -3.79 | 0.00 | 0.99 | 7.80 | -4.69 | 4.36 | -1.07 |
| Armagh | -8.10 | 0.00 | 1.13 | 10.68 | -10.03 | 5.55 | -1.81 |
| Belmullet | -0.23 | 0.84 | 1.12 | 6.44 | -0.29 | 4.65 | -0.06 |
| Island of Ireland | -5.21 | 0.00 | 0.95 | 9.19 | -6.45 | 4.39 | -1.47 |

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| **Diurnal Temperature Range (DTR)** | **alpha (oC)** | **p-value** | **alpha.se** | **avg obs** | **signal** | **noise** | **SNR** |
| Phoenix Park | -0.49 | 0.00 | 0.15 | 8.72 | -0.61 | 0.64 | -0.95 |
| Glasnevin | -0.29 | 0.04 | 0.14 | 7.10 | -0.37 | 0.61 | -0.60 |
| Dublin | -0.47 | 0.00 | 0.12 | 6.59 | -0.59 | 0.51 | -1.14 |
| Roches Point | -0.14 | 0.21 | 0.11 | 5.89 | -0.18 | 0.48 | -0.37 |
| Malin Head | 0.44 | 0.00 | 0.12 | 4.82 | 0.54 | 0.51 | 1.06 |
| Birr | -0.34 | 0.07 | 0.18 | 8.36 | -0.42 | 0.77 | -0.54 |
| Galway | 0.03 | 0.87 | 0.16 | 7.70 | 0.03 | 0.66 | 0.05 |
| Valentia | -0.19 | 0.19 | 0.15 | 5.57 | -0.24 | 0.62 | -0.39 |
| Markree | -0.13 | 0.43 | 0.16 | 7.92 | -0.16 | 0.68 | -0.24 |
| Armagh | -0.61 | 0.00 | 0.15 | 8.48 | -0.76 | 0.65 | -1.17 |
| Belmullet | -0.03 | 0.79 | 0.12 | 5.58 | -0.04 | 0.48 | -0.08 |
| Island of Ireland | -0.20 | 0.06 | 0.11 | 6.98 | -0.25 | 0.46 | -0.55 |

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| **Warm Days (TX90p)** | **alpha (%)** | **p-value** | **alpha.se** | **avg obs** | **signal** | **noise** | **SNR** |
| Phoenix Park | 4.03 | 0.05 | 2.00 | 10.75 | 4.99 | 8.45 | 0.59 |
| Glasnevin | 4.42 | 0.02 | 1.93 | 11.29 | 5.48 | 8.18 | 0.67 |
| Dublin | 4.06 | 0.03 | 1.87 | 11.32 | 5.03 | 7.93 | 0.63 |
| Roches Point | 2.55 | 0.25 | 2.21 | 9.79 | 3.16 | 9.25 | 0.34 |
| Malin Head | 4.61 | 0.00 | 1.54 | 9.79 | 5.71 | 6.64 | 0.86 |
| Birr | 2.78 | 0.15 | 1.92 | 10.59 | 3.44 | 8.06 | 0.43 |
| Galway | 0.91 | 0.64 | 1.93 | 10.39 | 1.13 | 8.06 | 0.14 |
| Valentia | -0.10 | 0.96 | 1.81 | 9.41 | -0.12 | 7.54 | -0.02 |
| Markree | 0.95 | 0.58 | 1.73 | 9.94 | 1.18 | 7.23 | 0.16 |
| Armagh | 4.56 | 0.01 | 1.77 | 9.60 | 5.65 | 7.57 | 0.75 |
| Belmullet | 3.42 | 0.06 | 1.80 | 10.57 | 4.24 | 7.60 | 0.56 |
| Island of Ireland | 2.93 | 0.09 | 1.69 | 10.31 | 3.62 | 7.11 | 0.51 |

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| **Warm Nights (TN90p)** | **alpha (%)** | **p-value** | **alpha.se** | **avg obs** | **signal** | **noise** | **SNR** |
| Phoenix Park | 9.26 | 0.00 | 1.23 | 9.49 | 11.47 | 6.12 | 1.87 |
| Glasnevin | 6.89 | 0.00 | 1.39 | 9.67 | 8.53 | 6.30 | 1.35 |
| Dublin | 9.48 | 0.00 | 1.52 | 9.39 | 11.74 | 7.21 | 1.63 |
| Roches Point | 7.98 | 0.00 | 2.17 | 12.70 | 9.89 | 9.50 | 1.04 |
| Malin Head | 5.86 | 0.00 | 2.03 | 12.78 | 7.25 | 8.73 | 0.83 |
| Birr | 9.19 | 0.00 | 1.32 | 9.38 | 11.38 | 6.44 | 1.77 |
| Galway | 7.88 | 0.00 | 1.90 | 14.61 | 9.76 | 8.40 | 1.16 |
| Valentia | 6.99 | 0.00 | 1.73 | 13.08 | 8.65 | 7.64 | 1.13 |
| Markree | 5.61 | 0.00 | 1.63 | 12.27 | 6.94 | 7.07 | 0.98 |
| Armagh | 8.91 | 0.00 | 1.22 | 8.50 | 11.04 | 6.03 | 1.83 |
| Belmullet | 8.02 | 0.00 | 1.66 | 11.50 | 9.93 | 7.49 | 1.33 |
| Island of Ireland | 7.82 | 0.00 | 1.40 | 11.22 | 9.69 | 6.47 | 1.50 |

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| **Coldest Day (TXn)** | **alpha (oC)** | **p-value** | **alpha.se** | **avg obs** | **signal** | **noise** | **SNR** |
| Phoenix Park | 0.42 | 0.18 | 0.31 | 13.23 | 0.52 | 1.31 | 0.40 |
| Glasnevin | 0.64 | 0.03 | 0.29 | 13.41 | 0.79 | 1.24 | 0.64 |
| Dublin | 0.60 | 0.04 | 0.29 | 12.86 | 0.74 | 1.24 | 0.60 |
| Roches Point | 0.46 | 0.03 | 0.21 | 13.46 | 0.57 | 0.88 | 0.65 |
| Malin Head | 1.00 | 0.00 | 0.25 | 11.51 | 1.24 | 1.11 | 1.11 |
| Birr | 0.79 | 0.01 | 0.28 | 12.81 | 0.97 | 1.18 | 0.82 |
| Galway | 0.52 | 0.03 | 0.24 | 13.43 | 0.65 | 1.01 | 0.64 |
| Valentia | 0.47 | 0.02 | 0.19 | 13.26 | 0.58 | 0.82 | 0.71 |
| Markree | 1.18 | 0.00 | 0.24 | 12.60 | 1.47 | 1.10 | 1.33 |
| Armagh | 0.26 | 0.40 | 0.31 | 12.89 | 0.33 | 1.31 | 0.25 |
| Belmullet | 0.65 | 0.00 | 0.21 | 12.89 | 0.80 | 0.91 | 0.88 |
| Island of Ireland | 0.64 | 0.00 | 0.20 | 12.94 | 0.79 | 0.84 | 0.93 |

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| **Hottest Day (TXx)** | **alpha (oC)** | **p-value** | **alpha.se** | **avg obs** | **signal** | **noise** | **SNR** |
| Phoenix Park | 0.50 | 0.26 | 0.44 | 25.63 | 0.62 | 1.85 | 0.34 |
| Glasnevin | 0.57 | 0.13 | 0.37 | 25.36 | 0.71 | 1.57 | 0.45 |
| Dublin | 0.63 | 0.11 | 0.39 | 24.83 | 0.78 | 1.64 | 0.48 |
| Roches Point | 0.55 | 0.15 | 0.38 | 23.08 | 0.69 | 1.59 | 0.43 |
| Malin Head | 0.55 | 0.22 | 0.45 | 23.25 | 0.68 | 1.87 | 0.37 |
| Birr | 0.52 | 0.27 | 0.48 | 25.91 | 0.65 | 1.99 | 0.32 |
| Galway | -0.27 | 0.63 | 0.55 | 25.83 | -0.33 | 2.30 | -0.14 |
| Valentia | 0.27 | 0.63 | 0.55 | 24.44 | 0.33 | 2.30 | 0.14 |
| Markree | 0.10 | 0.83 | 0.47 | 25.01 | 0.13 | 1.97 | 0.06 |
| Armagh | 1.02 | 0.03 | 0.47 | 25.92 | 1.27 | 2.00 | 0.63 |
| Belmullet | 0.85 | 0.12 | 0.54 | 23.87 | 1.06 | 2.28 | 0.46 |
| Island of Ireland | 0.48 | 0.20 | 0.37 | 24.83 | 0.60 | 1.57 | 0.38 |

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| **Coldest Night (TNn)** | **alpha (oC)** | **p-value** | **alpha.se** | **avg obs** | **signal** | **noise** | **SNR** |
| Phoenix Park | 2.22 | 0.00 | 0.31 | 3.54 | 2.75 | 1.53 | 1.80 |
| Glasnevin | 2.24 | 0.00 | 0.31 | 5.36 | 2.78 | 1.51 | 1.84 |
| Dublin | 1.63 | 0.00 | 0.29 | 6.44 | 2.02 | 1.34 | 1.51 |
| Roches Point | 0.45 | 0.11 | 0.28 | 7.01 | 0.55 | 1.18 | 0.47 |
| Malin Head | -0.61 | 0.06 | 0.31 | 6.45 | -0.75 | 1.33 | -0.56 |
| Birr | 0.80 | 0.01 | 0.32 | 3.00 | 0.99 | 1.36 | 0.73 |
| Galway | 0.20 | 0.53 | 0.31 | 4.61 | 0.24 | 1.31 | 0.19 |
| Valentia | 0.49 | 0.09 | 0.28 | 5.76 | 0.60 | 1.19 | 0.51 |
| Markree | 0.97 | 0.01 | 0.36 | 1.87 | 1.20 | 1.52 | 0.79 |
| Armagh | 1.10 | 0.00 | 0.31 | 3.92 | 1.36 | 1.36 | 1.00 |
| Belmullet | -0.36 | 0.26 | 0.32 | 5.83 | -0.45 | 1.33 | -0.34 |
| Island of Ireland | 0.83 | 0.00 | 0.23 | 4.89 | 1.03 | 0.99 | 1.03 |

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| **Hottest Night (TNx)** | **alpha (oC)** | **p-value** | **alpha.se** | **avg obs** | **signal** | **noise** | **SNR** |
| Phoenix Park | 1.09 | 0.00 | 0.25 | 16.28 | 1.34 | 1.12 | 1.20 |
| Glasnevin | 0.51 | 0.04 | 0.25 | 17.59 | 0.63 | 1.04 | 0.61 |
| Dublin | 1.15 | 0.00 | 0.28 | 17.01 | 1.42 | 1.23 | 1.15 |
| Roches Point | 0.52 | 0.05 | 0.26 | 15.86 | 0.64 | 1.10 | 0.58 |
| Malin Head | 0.29 | 0.26 | 0.26 | 15.44 | 0.36 | 1.09 | 0.34 |
| Birr | 1.35 | 0.00 | 0.25 | 15.62 | 1.67 | 1.14 | 1.46 |
| Galway | 0.32 | 0.24 | 0.27 | 15.39 | 0.39 | 1.12 | 0.35 |
| Valentia | 0.47 | 0.07 | 0.26 | 16.21 | 0.58 | 1.09 | 0.53 |
| Markree | 0.05 | 0.85 | 0.25 | 15.28 | 0.06 | 1.04 | 0.06 |
| Armagh | 1.03 | 0.00 | 0.25 | 15.84 | 1.28 | 1.12 | 1.14 |
| Belmullet | 0.91 | 0.00 | 0.23 | 15.56 | 1.13 | 1.02 | 1.10 |
| Island of Ireland | 0.70 | 0.00 | 0.20 | 16.01 | 0.86 | 0.85 | 1.01 |

**Autumn Temperature ETCCDI indices**

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| **Cool Days (TX10p)** | **alpha (%)** | **p-value** | **alpha.se** | **avg obs** | **signal** | **noise** | **SNR** |
| Phoenix Park | -8.87 | 0.00 | 1.55 | 10.71 | -10.98 | 7.20 | -1.52 |
| Glasnevin | -8.64 | 0.00 | 1.63 | 9.84 | -10.70 | 7.48 | -1.43 |
| Dublin | -10.22 | 0.00 | 1.72 | 10.84 | -12.66 | 8.08 | -1.57 |
| Roches Point | -7.45 | 0.00 | 1.72 | 9.56 | -9.22 | 7.65 | -1.20 |
| Malin Head | -9.60 | 0.00 | 1.68 | 10.64 | -11.89 | 7.80 | -1.52 |
| Birr | -8.71 | 0.00 | 1.57 | 10.22 | -10.78 | 7.26 | -1.48 |
| Galway | -6.43 | 0.00 | 1.58 | 9.88 | -7.96 | 6.98 | -1.14 |
| Valentia | -7.81 | 0.00 | 1.81 | 9.50 | -9.68 | 8.05 | -1.20 |
| Markree | -9.51 | 0.00 | 1.67 | 10.86 | -11.78 | 7.76 | -1.52 |
| Armagh | -8.63 | 0.00 | 1.61 | 10.44 | -10.68 | 7.39 | -1.44 |
| Belmullet | -9.47 | 0.00 | 1.81 | 10.05 | -11.73 | 8.28 | -1.42 |
| Island of Ireland | -8.67 | 0.00 | 1.53 | 10.23 | -10.73 | 7.11 | -1.51 |

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| **Cool Nights (TN10p)** | **alpha (%)** | **p-value** | **alpha.se** | **avg obs** | **signal** | **noise** | **SNR** |
| Phoenix Park | -12.81 | 0.00 | 1.61 | 13.90 | -15.87 | 8.17 | -1.94 |
| Glasnevin | -10.82 | 0.00 | 1.54 | 13.50 | -13.40 | 7.50 | -1.79 |
| Dublin | -11.71 | 0.00 | 1.71 | 13.00 | -14.50 | 8.29 | -1.75 |
| Roches Point | -9.53 | 0.00 | 1.58 | 10.75 | -11.81 | 7.44 | -1.59 |
| Malin Head | -4.71 | 0.00 | 1.30 | 9.60 | -5.84 | 5.66 | -1.03 |
| Birr | -10.09 | 0.00 | 1.59 | 13.05 | -12.49 | 7.57 | -1.65 |
| Galway | -4.65 | 0.00 | 1.49 | 11.51 | -5.76 | 6.43 | -0.90 |
| Valentia | -7.84 | 0.00 | 1.50 | 11.01 | -9.70 | 6.88 | -1.41 |
| Markree | -5.64 | 0.00 | 1.28 | 10.59 | -6.98 | 5.73 | -1.22 |
| Armagh | -9.80 | 0.00 | 1.68 | 13.51 | -12.14 | 7.86 | -1.54 |
| Belmullet | -3.81 | 0.00 | 1.32 | 8.92 | -4.72 | 5.67 | -0.83 |
| Island of Ireland | -8.31 | 0.00 | 1.29 | 11.76 | -10.29 | 6.18 | -1.67 |

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| **Diurnal Temperature Range (DTR)** | **alpha (oC)** | **p-value** | **alpha.se** | **avg obs** | **signal** | **noise** | **SNR** |
| Phoenix Park | -0.64 | 0.00 | 0.13 | 7.30 | -0.79 | 0.57 | -1.37 |
| Glasnevin | -0.23 | 0.09 | 0.13 | 6.21 | -0.28 | 0.55 | -0.51 |
| Dublin | -0.22 | 0.04 | 0.10 | 5.58 | -0.27 | 0.44 | -0.60 |
| Roches Point | -0.08 | 0.39 | 0.09 | 4.77 | -0.10 | 0.38 | -0.25 |
| Malin Head | -0.07 | 0.46 | 0.10 | 4.58 | -0.09 | 0.41 | -0.22 |
| Birr | -0.49 | 0.00 | 0.14 | 7.02 | -0.61 | 0.60 | -1.01 |
| Galway | -0.18 | 0.16 | 0.13 | 7.18 | -0.22 | 0.54 | -0.42 |
| Valentia | -0.60 | 0.00 | 0.12 | 5.46 | -0.75 | 0.53 | -1.41 |
| Markree | -0.40 | 0.01 | 0.14 | 7.59 | -0.50 | 0.62 | -0.81 |
| Armagh | -0.47 | 0.00 | 0.13 | 6.91 | -0.58 | 0.57 | -1.01 |
| Belmullet | -0.20 | 0.06 | 0.10 | 5.18 | -0.25 | 0.43 | -0.57 |
| Island of Ireland | -0.32 | 0.00 | 0.09 | 6.16 | -0.40 | 0.40 | -1.01 |

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| **Frost Days (FD)** | **alpha (days)** | **p-value** | **alpha.se** | **avg obs** | **signal** | **noise** | **SNR** |
| Phoenix Park | -5.30 | 0.00 | 1.00 | 7.03 | -6.57 | 4.57 | -1.44 |
| Glasnevin | -2.63 | 0.00 | 0.72 | 3.86 | -3.25 | 3.14 | -1.03 |
| Dublin | -2.03 | 0.00 | 0.46 | 1.53 | -2.52 | 2.05 | -1.23 |
| Roches Point | -0.56 | 0.03 | 0.26 | 0.34 | -0.70 | 1.11 | -0.63 |
| Malin Head | -0.13 | 0.56 | 0.22 | 0.37 | -0.16 | 0.91 | -0.17 |
| Birr | -5.04 | 0.00 | 1.12 | 8.79 | -6.24 | 5.02 | -1.24 |
| Galway | -2.50 | 0.02 | 1.03 | 6.13 | -3.10 | 4.39 | -0.71 |
| Valentia | -1.74 | 0.00 | 0.56 | 1.61 | -2.15 | 2.42 | -0.89 |
| Markree | -5.21 | 0.00 | 1.24 | 11.01 | -6.45 | 5.49 | -1.18 |
| Armagh | -4.49 | 0.00 | 1.00 | 6.43 | -5.56 | 4.48 | -1.24 |
| Belmullet | -0.34 | 0.40 | 0.39 | 0.77 | -0.42 | 1.65 | -0.25 |
| Island of Ireland | -2.72 | 0.00 | 0.61 | 4.35 | -3.37 | 2.73 | -1.24 |

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| **Warm Days (TX90p)** | **alpha (%)** | **p-value** | **alpha.se** | **avg obs** | **signal** | **noise** | **SNR** |
| Phoenix Park | 6.35 | 0.00 | 1.61 | 10.19 | 7.86 | 7.10 | 1.11 |
| Glasnevin | 7.54 | 0.00 | 1.52 | 10.05 | 9.34 | 6.89 | 1.36 |
| Dublin | 7.45 | 0.00 | 1.47 | 10.02 | 9.22 | 6.71 | 1.37 |
| Roches Point | 11.85 | 0.00 | 2.41 | 12.41 | 14.67 | 10.93 | 1.34 |
| Malin Head | 5.46 | 0.00 | 1.61 | 10.48 | 6.77 | 6.99 | 0.97 |
| Birr | 5.84 | 0.00 | 1.66 | 10.07 | 7.23 | 7.25 | 1.00 |
| Galway | 8.61 | 0.00 | 1.92 | 11.62 | 10.66 | 8.59 | 1.24 |
| Valentia | 6.74 | 0.00 | 1.85 | 10.39 | 8.35 | 8.10 | 1.03 |
| Markree | 3.29 | 0.05 | 1.68 | 10.55 | 4.07 | 7.09 | 0.57 |
| Armagh | 8.13 | 0.00 | 1.64 | 10.76 | 10.07 | 7.44 | 1.35 |
| Belmullet | 5.86 | 0.00 | 1.98 | 11.45 | 7.26 | 8.53 | 0.85 |
| Island of Ireland | 7.01 | 0.00 | 1.61 | 10.73 | 8.68 | 7.16 | 1.21 |

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| **Warm Nights (TN90p)** | **alpha (% )** | **p-value** | **alpha.se** | **avg obs** | **signal** | **noise** | **SNR** |
| Phoenix Park | 7.19 | 0.00 | 1.16 | 9.53 | 8.91 | 5.49 | 1.62 |
| Glasnevin | 5.41 | 0.00 | 1.26 | 9.22 | 6.70 | 5.62 | 1.19 |
| Dublin | 7.34 | 0.00 | 1.30 | 8.46 | 9.09 | 6.03 | 1.51 |
| Roches Point | 4.83 | 0.00 | 1.67 | 11.14 | 5.98 | 7.16 | 0.83 |
| Malin Head | 7.71 | 0.00 | 1.61 | 11.11 | 9.55 | 7.28 | 1.31 |
| Birr | 5.55 | 0.00 | 1.29 | 9.26 | 6.87 | 5.74 | 1.20 |
| Galway | 7.34 | 0.00 | 1.63 | 10.87 | 9.08 | 7.28 | 1.25 |
| Valentia | 8.13 | 0.00 | 1.61 | 10.79 | 10.06 | 7.34 | 1.37 |
| Markree | 4.58 | 0.00 | 1.35 | 10.98 | 5.67 | 5.87 | 0.97 |
| Armagh | 7.07 | 0.00 | 1.27 | 8.14 | 8.76 | 5.88 | 1.49 |
| Belmullet | 6.95 | 0.00 | 1.46 | 9.40 | 8.61 | 6.59 | 1.31 |
| Island of Ireland | 6.55 | 0.00 | 1.23 | 9.90 | 8.12 | 5.65 | 1.44 |

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| **Hottest Day (TXx)** | **alpha (oC)** | **p-value** | **alpha.se** | **avg obs** | **signal** | **noise** | **SNR** |
| Phoenix Park | 0.83 | 0.07 | 0.45 | 22.11 | 1.03 | 1.89 | 0.54 |
| Glasnevin | 0.73 | 0.09 | 0.43 | 22.25 | 0.90 | 1.81 | 0.50 |
| Dublin | 0.98 | 0.02 | 0.42 | 21.93 | 1.22 | 1.79 | 0.68 |
| Roches Point | 0.45 | 0.23 | 0.37 | 19.77 | 0.56 | 1.57 | 0.35 |
| Malin Head | 0.35 | 0.47 | 0.48 | 20.23 | 0.43 | 2.00 | 0.21 |
| Birr | 0.80 | 0.07 | 0.44 | 21.20 | 0.99 | 1.85 | 0.53 |
| Galway | 0.44 | 0.35 | 0.47 | 20.66 | 0.55 | 1.97 | 0.28 |
| Valentia | 0.24 | 0.65 | 0.53 | 20.78 | 0.30 | 2.22 | 0.14 |
| Markree | -0.02 | 0.96 | 0.43 | 20.67 | -0.03 | 1.80 | -0.02 |
| Armagh | 0.89 | 0.04 | 0.43 | 21.29 | 1.10 | 1.84 | 0.60 |
| Belmullet | 0.68 | 0.17 | 0.49 | 20.01 | 0.84 | 2.05 | 0.41 |
| Island of Ireland | 0.58 | 0.13 | 0.38 | 20.99 | 0.72 | 1.61 | 0.45 |

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| **Coldest Day (TXn)** | **alpha (oC)** | **p-value** | **alpha.se** | **avg obs** | **signal** | **noise** | **SNR** |
| Phoenix Park | 0.74 | 0.15 | 0.51 | 4.91 | 0.92 | 2.14 | 0.43 |
| Glasnevin | 0.91 | 0.06 | 0.49 | 5.77 | 1.13 | 2.06 | 0.55 |
| Dublin | 0.94 | 0.05 | 0.46 | 5.41 | 1.16 | 1.96 | 0.59 |
| Roches Point | 0.96 | 0.02 | 0.39 | 6.63 | 1.19 | 1.67 | 0.72 |
| Malin Head | 0.74 | 0.01 | 0.29 | 6.43 | 0.92 | 1.22 | 0.75 |
| Birr | 1.34 | 0.01 | 0.52 | 4.52 | 1.66 | 2.22 | 0.75 |
| Galway | 0.35 | 0.46 | 0.47 | 5.78 | 0.43 | 1.97 | 0.22 |
| Valentia | 0.97 | 0.01 | 0.36 | 7.58 | 1.20 | 1.53 | 0.78 |
| Markree | 1.21 | 0.00 | 0.38 | 5.13 | 1.50 | 1.64 | 0.91 |
| Armagh | 0.57 | 0.22 | 0.47 | 4.66 | 0.71 | 1.97 | 0.36 |
| Belmullet | 0.93 | 0.00 | 0.31 | 6.85 | 1.15 | 1.35 | 0.86 |
| Island of Ireland | 0.88 | 0.02 | 0.38 | 5.79 | 1.09 | 1.60 | 0.68 |

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| **Coldest Night (TNn)** | **alpha (oC)** | **p-value** | **alpha.se** | **avg obs** | **signal** | **noise** | **SNR** |
| Phoenix Park | 2.01 | 0.00 | 0.40 | -3.22 | 2.49 | 1.81 | 1.38 |
| Glasnevin | 0.86 | 0.02 | 0.35 | -1.98 | 1.07 | 1.50 | 0.72 |
| Dublin | 1.60 | 0.00 | 0.35 | -0.42 | 1.98 | 1.55 | 1.28 |
| Roches Point | 1.19 | 0.00 | 0.28 | 1.09 | 1.48 | 1.26 | 1.18 |
| Malin Head | 0.40 | 0.19 | 0.31 | 1.02 | 0.50 | 1.29 | 0.39 |
| Birr | 1.31 | 0.00 | 0.41 | -4.09 | 1.62 | 1.78 | 0.91 |
| Galway | 0.68 | 0.07 | 0.37 | -2.75 | 0.84 | 1.55 | 0.54 |
| Valentia | 1.24 | 0.00 | 0.37 | -0.27 | 1.53 | 1.62 | 0.95 |
| Markree | 2.69 | 0.00 | 0.48 | -5.04 | 3.34 | 2.24 | 1.49 |
| Armagh | 1.56 | 0.00 | 0.43 | -3.10 | 1.93 | 1.89 | 1.03 |
| Belmullet | 0.46 | 0.24 | 0.38 | 0.55 | 0.57 | 1.61 | 0.35 |
| Island of Ireland | 1.27 | 0.00 | 0.30 | -1.65 | 1.58 | 1.34 | 1.17 |

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| **Hottest Night (TNx)** | **alpha (oC)** | **p-value** | **alpha.se** | **avg obs** | **signal** | **noise** | **SNR** |
| Phoenix Park | 1.24 | 0.00 | 0.30 | 14.70 | 1.53 | 1.32 | 1.16 |
| Glasnevin | 0.98 | 0.00 | 0.30 | 16.01 | 1.21 | 1.31 | 0.92 |
| Dublin | 1.27 | 0.00 | 0.30 | 15.28 | 1.57 | 1.32 | 1.19 |
| Roches Point | 0.33 | 0.16 | 0.23 | 14.83 | 0.40 | 0.96 | 0.42 |
| Malin Head | 0.87 | 0.00 | 0.28 | 14.28 | 1.08 | 1.23 | 0.88 |
| Birr | 1.42 | 0.00 | 0.31 | 14.41 | 1.76 | 1.40 | 1.26 |
| Galway | 0.55 | 0.07 | 0.31 | 13.84 | 0.69 | 1.29 | 0.53 |
| Valentia | 0.73 | 0.01 | 0.26 | 15.10 | 0.91 | 1.13 | 0.80 |
| Markree | 0.25 | 0.42 | 0.31 | 13.80 | 0.31 | 1.28 | 0.24 |
| Armagh | 1.44 | 0.00 | 0.33 | 14.14 | 1.79 | 1.46 | 1.22 |
| Belmullet | 1.01 | 0.00 | 0.25 | 14.27 | 1.25 | 1.08 | 1.15 |
| Island of Ireland | 0.92 | 0.00 | 0.24 | 14.61 | 1.14 | 1.04 | 1.09 |

**Annual and Seasonal Precipitation Totals**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Annual Precip** | **alpha (%)** | **p-value** | **alpha.se** | **avg obs** | **signal** | **noise** | **SNR** |
| Roches Point | -0.10 | 0.98 | 36.36 | 1101.69 | -1.31 | 164.91 | -0.01 |
| Cork Airport | 4.14 | 0.21 | 39.98 | 1202.16 | 61.67 | 182.16 | 0.34 |
| Valentia | 11.75 | 0.00 | 40.71 | 1458.92 | 212.21 | 194.25 | 1.09 |
| Shannon Airport | 8.32 | 0.00 | 26.92 | 946.56 | 97.51 | 125.22 | 0.78 |
| Dublin Airport | 7.00 | 0.03 | 24.21 | 737.62 | 63.90 | 111.30 | 0.57 |
| Phoenix Park | 6.93 | 0.03 | 23.55 | 756.37 | 64.94 | 108.42 | 0.60 |
| Mullingar | 12.09 | 0.00 | 23.99 | 842.79 | 126.20 | 114.56 | 1.10 |
| Galway | 9.33 | 0.00 | 33.71 | 1219.23 | 140.81 | 158.04 | 0.89 |
| Athboy | 4.63 | 0.10 | 25.82 | 896.95 | 51.42 | 118.02 | 0.44 |
| Markree | 10.86 | 0.00 | 30.69 | 1154.75 | 155.32 | 146.02 | 1.06 |
| Armagh | 2.05 | 0.45 | 21.96 | 820.06 | 20.82 | 99.80 | 0.21 |
| Malin Head | 10.41 | 0.00 | 26.82 | 1059.29 | 136.58 | 127.68 | 1.07 |
| Island of Ireland | 7.48 | 0.00 | 23.52 | 1016.36 | 94.17 | 109.98 | 0.86 |

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| **Winter Precip** | **alpha (%)** | **p-value** | **alpha.se** | **avg obs** | **signal** | **noise** | **SNR** |
| Roches Point | 0.83 | 0.89 | 20.47 | 340.29 | 3.49 | 92.87 | 0.04 |
| Cork Airport | -2.23 | 0.76 | 27.93 | 380.71 | -10.51 | 126.72 | -0.08 |
| Valentia | 13.51 | 0.01 | 24.38 | 450.66 | 75.37 | 112.62 | 0.67 |
| Shannon Airport | 15.01 | 0.02 | 17.54 | 274.35 | 51.01 | 80.85 | 0.63 |
| Dublin Airport | 11.22 | 0.09 | 12.13 | 181.48 | 25.22 | 55.46 | 0.45 |
| Phoenix Park | 10.50 | 0.10 | 12.12 | 191.61 | 24.91 | 55.43 | 0.45 |
| Mullingar | 18.29 | 0.00 | 13.31 | 224.95 | 50.95 | 62.09 | 0.82 |
| Galway | 18.29 | 0.00 | 19.81 | 345.27 | 78.19 | 92.55 | 0.84 |
| Athboy | 8.63 | 0.15 | 13.86 | 234.31 | 25.03 | 63.28 | 0.40 |
| Markree | 19.69 | 0.00 | 16.91 | 321.92 | 78.50 | 79.86 | 0.98 |
| Armagh | 6.90 | 0.24 | 12.43 | 210.49 | 17.98 | 56.61 | 0.32 |
| Malin Head | 25.18 | 0.00 | 15.68 | 295.46 | 92.14 | 75.78 | 1.22 |
| Island of Ireland | 15.82 | 0.00 | 12.81 | 250.69 | 49.11 | 59.74 | 0.82 |

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| **Spring Precip** | **alpha (%)** | **p-value** | **alpha.se** | **avg obs** | **signal** | **noise** | **SNR** |
| Roches Point | 0.59 | 0.93 | 14.84 | 227.12 | 1.65 | 67.33 | 0.02 |
| Cork Airport | 6.05 | 0.38 | 17.02 | 246.95 | 18.49 | 77.36 | 0.24 |
| Valentia | 9.66 | 0.08 | 15.60 | 286.19 | 34.23 | 71.41 | 0.48 |
| Shannon Airport | 9.19 | 0.10 | 10.33 | 183.40 | 20.88 | 47.22 | 0.44 |
| Dublin Airport | 5.63 | 0.34 | 9.19 | 156.86 | 10.94 | 41.80 | 0.26 |
| Phoenix Park | 8.88 | 0.11 | 8.91 | 159.84 | 17.58 | 40.72 | 0.43 |
| Mullingar | 13.63 | 0.01 | 9.40 | 171.76 | 28.99 | 43.44 | 0.67 |
| Galway | 6.72 | 0.23 | 13.43 | 238.35 | 19.83 | 61.18 | 0.32 |
| Athboy | 5.04 | 0.37 | 10.36 | 183.96 | 11.49 | 47.11 | 0.24 |
| Markree | 10.30 | 0.06 | 12.52 | 226.43 | 28.87 | 57.36 | 0.50 |
| Armagh | 3.21 | 0.59 | 10.06 | 169.02 | 6.71 | 45.66 | 0.15 |
| Malin Head | 7.92 | 0.13 | 10.19 | 194.56 | 19.08 | 46.52 | 0.41 |
| Island of Ireland | 7.23 | 0.12 | 9.51 | 203.70 | 18.23 | 43.43 | 0.42 |

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| **Summer Precip** | **alpha (%)** | **p-value** | **alpha.se** | **avg obs** | **signal** | **noise** | **SNR** |
| Roches Point | -3.15 | 0.65 | 17.27 | 247.47 | -9.65 | 78.37 | -0.12 |
| Cork Airport | 6.71 | 0.38 | 18.40 | 241.05 | 20.02 | 83.66 | 0.24 |
| Valentia | 1.72 | 0.77 | 17.73 | 296.65 | 6.33 | 80.44 | 0.08 |
| Shannon Airport | -3.92 | 0.56 | 14.96 | 223.34 | -10.84 | 67.90 | -0.16 |
| Dublin Airport | -0.74 | 0.92 | 13.67 | 194.81 | -1.79 | 62.01 | -0.03 |
| Phoenix Park | -1.49 | 0.83 | 13.98 | 198.67 | -3.65 | 63.43 | -0.06 |
| Mullingar | -1.11 | 0.87 | 14.24 | 214.61 | -2.96 | 64.61 | -0.05 |
| Galway | -0.96 | 0.87 | 16.69 | 284.86 | -3.40 | 75.69 | -0.04 |
| Athboy | -7.51 | 0.26 | 15.47 | 233.20 | -21.67 | 70.44 | -0.31 |
| Markree | -2.17 | 0.70 | 15.70 | 278.73 | -7.48 | 71.26 | -0.10 |
| Armagh | -8.94 | 0.14 | 13.18 | 217.11 | -24.05 | 60.18 | -0.40 |
| Malin Head | -3.60 | 0.51 | 14.08 | 255.18 | -11.38 | 63.96 | -0.18 |
| Island of Ireland | -1.97 | 0.72 | 13.26 | 240.47 | -5.88 | 60.17 | -0.10 |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Autumn Precip** | **alpha (%)** | **p-value** | **alpha.se** | **avg obs** | **signal** | **noise** | **SNR** |
| Roches Point | 3.40 | 0.58 | 18.84 | 305.59 | 12.88 | 85.52 | 0.15 |
| Cork Airport | 7.31 | 0.25 | 21.17 | 333.31 | 30.19 | 96.40 | 0.31 |
| Valentia | 17.03 | 0.00 | 23.03 | 424.93 | 89.63 | 107.54 | 0.83 |
| Shannon Airport | 10.55 | 0.05 | 13.92 | 264.85 | 34.59 | 63.88 | 0.54 |
| Dublin Airport | 11.48 | 0.08 | 13.26 | 204.48 | 29.06 | 60.70 | 0.48 |
| Phoenix Park | 10.28 | 0.10 | 12.73 | 206.15 | 26.25 | 58.20 | 0.45 |
| Mullingar | 17.24 | 0.00 | 12.21 | 231.20 | 49.37 | 57.14 | 0.86 |
| Galway | 11.04 | 0.05 | 19.41 | 350.54 | 47.92 | 89.10 | 0.54 |
| Athboy | 12.54 | 0.02 | 13.32 | 245.37 | 38.12 | 61.36 | 0.62 |
| Markree | 14.19 | 0.01 | 16.56 | 327.51 | 57.54 | 76.89 | 0.75 |
| Armagh | 7.63 | 0.18 | 12.56 | 223.11 | 21.07 | 57.26 | 0.37 |
| Malin Head | 10.03 | 0.04 | 15.35 | 313.89 | 38.98 | 70.48 | 0.55 |
| Island of Ireland | 11.19 | 0.01 | 12.92 | 285.91 | 39.63 | 59.66 | 0.66 |

**Annual Precipitation ETCCDI indices**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Very wet days (R95pTOT)** | **alpha (%)** | **p-value** | **alpha.se** | **avg obs** | **signal** | **noise** | **SNR** |
| Foulkesmills (s108) | 23.30 | 0.04 | 23.99 | 210.07 | 60.60 | 87.96 | 0.69 |
| Phoenix Park (s175) | 1.20 | 0.91 | 19.00 | 169.63 | 2.52 | 68.34 | 0.04 |
| Inagh (Mt. Callan s417) | 28.17 | 0.00 | 29.56 | 313.98 | 109.52 | 110.69 | 0.99 |
| Ballyhaise (s675) | 25.41 | 0.01 | 19.82 | 201.86 | 63.51 | 73.48 | 0.86 |
| Mallow (Hazelwood s706) | 33.76 | 0.00 | 22.39 | 214.67 | 89.75 | 84.39 | 1.06 |
| Mullingar (s875) | 18.42 | 0.09 | 18.94 | 175.49 | 40.04 | 69.02 | 0.58 |
| Cresslough (s944) | 21.90 | 0.06 | 28.57 | 243.67 | 66.08 | 104.40 | 0.63 |
| Roches Point (s1075) | 0.85 | 0.94 | 21.52 | 200.90 | 2.12 | 77.41 | 0.03 |
| Newport (s1175) | 35.38 | 0.00 | 27.29 | 255.05 | 111.75 | 103.04 | 1.08 |
| Markree (s1275) | 11.97 | 0.15 | 19.31 | 235.07 | 34.86 | 70.12 | 0.50 |
| Omeath (s1338) | -9.34 | 0.34 | 23.32 | 239.89 | -27.76 | 84.25 | -0.33 |
| Dunsany (s1375) | 19.91 | 0.07 | 18.24 | 168.37 | 41.52 | 66.62 | 0.62 |
| Westport (Carrabawn s1433) | 12.56 | 0.18 | 28.20 | 303.18 | 47.17 | 102.26 | 0.46 |
| Gurteen (s1475) | 17.66 | 0.11 | 20.16 | 186.19 | 40.71 | 73.41 | 0.55 |
| Meelick (Victoria Lock s1519) | 24.72 | 0.04 | 18.72 | 159.75 | 48.91 | 68.71 | 0.71 |
| Drumsna (Albert Lock s1529) | 34.95 | 0.00 | 18.89 | 189.09 | 81.83 | 71.73 | 1.14 |
| Lavagh (Ballyheelan s1530) | 18.85 | 0.07 | 16.31 | 159.54 | 37.24 | 59.60 | 0.62 |
| Malin Head (s1575) | 38.39 | 0.00 | 19.78 | 180.26 | 85.70 | 75.09 | 1.14 |
| Waterford (Tycor s1812) | 2.52 | 0.82 | 24.67 | 219.37 | 6.85 | 88.76 | 0.08 |
| Glenasmole (s1923) | -15.67 | 0.24 | 36.47 | 277.27 | -53.81 | 132.04 | -0.41 |
| Athlone (OPW s1929) | 20.99 | 0.04 | 18.37 | 178.31 | 46.34 | 67.33 | 0.69 |
| Carndolla (s2227) | 46.53 | 0.00 | 21.23 | 179.20 | 103.25 | 81.66 | 1.26 |
| Valentia (s2275) | 10.46 | 0.27 | 28.25 | 297.08 | 38.49 | 102.16 | 0.38 |
| Belmullet (s2375) | 9.83 | 0.33 | 24.41 | 243.11 | 29.59 | 88.17 | 0.34 |
| Enniscorthy (s4015) | 21.91 | 0.09 | 24.52 | 192.82 | 52.33 | 89.41 | 0.59 |
| Kilkenny (s4513) | 41.60 | 0.00 | 18.64 | 171.86 | 88.53 | 71.49 | 1.24 |
| Kilskyre (Robinstown s5131) | 8.48 | 0.39 | 20.56 | 207.54 | 21.79 | 74.19 | 0.29 |
| Kilaloe Dock (s6019) | 30.21 | 0.01 | 26.37 | 231.06 | 86.44 | 97.88 | 0.88 |
| Strokestown (s6329) | 11.10 | 0.31 | 22.52 | 206.17 | 28.34 | 81.40 | 0.35 |
| Portlaw (Mayfield s8212) | 25.66 | 0.04 | 26.77 | 215.00 | 68.31 | 98.16 | 0.70 |
| Island of Ireland | 18.26 | 0.00 | 11.70 | 214.18 | 48.42 | 44.21 | 1.10 |
|  |  |  |  |  |  |  |  |
| **Extremely wet days (R99pTOT)** | **alpha (%)** | **p-value** | **alpha.se** | **avg obs** | **signal** | **noise** | **SNR** |
| Foulkesmills (s108) | 67.26 | 0.00 | 14.70 | 66.79 | 55.63 | 55.12 | 1.01 |
| Phoenix Park (s175) | 28.51 | 0.20 | 11.72 | 52.62 | 18.58 | 42.47 | 0.44 |
| Inagh (Mt. Callan s417) | 60.59 | 0.01 | 19.98 | 93.44 | 70.11 | 74.51 | 0.94 |
| Ballyhaise (s675) | 26.39 | 0.19 | 13.29 | 66.21 | 21.64 | 48.20 | 0.45 |
| Mallow (Hazelwood s706) | 49.67 | 0.01 | 12.75 | 68.09 | 41.88 | 47.35 | 0.88 |
| Mullingar (s875) | 67.89 | 0.00 | 10.64 | 46.49 | 39.09 | 39.82 | 0.98 |
| Cresslough (s944) | -12.81 | 0.56 | 15.80 | 72.38 | -11.49 | 56.93 | -0.20 |
| Roches Point (s1075) | -2.59 | 0.92 | 14.17 | 57.57 | -1.84 | 50.98 | -0.04 |
| Newport (s1175) | 59.82 | 0.01 | 16.53 | 73.05 | 54.12 | 61.35 | 0.88 |
| Markree (s1275) | -20.34 | 0.34 | 12.22 | 57.02 | -14.36 | 44.12 | -0.33 |
| Omeath (s1338) | 10.41 | 0.66 | 14.93 | 63.92 | 8.24 | 53.74 | 0.15 |
| Dunsany (s1375) | 48.97 | 0.02 | 10.63 | 50.76 | 30.78 | 39.18 | 0.79 |
| Westport (Carrabawn s1433) | -2.83 | 0.89 | 19.05 | 89.33 | -3.13 | 68.51 | -0.05 |
| Gurteen (s1475) | 23.51 | 0.26 | 14.53 | 69.32 | 20.18 | 52.57 | 0.38 |
| Meelick (Victoria Lock s1519) | 15.04 | 0.52 | 11.37 | 48.48 | 9.03 | 40.98 | 0.22 |
| Drumsna (Albert Lock s1529) | 32.12 | 0.13 | 11.80 | 56.27 | 22.38 | 42.90 | 0.52 |
| Lavagh (Ballyheelan s1530) | -3.33 | 0.89 | 11.19 | 44.73 | -1.84 | 40.23 | -0.05 |
| Malin Head (s1575) | 49.40 | 0.05 | 11.79 | 48.34 | 29.57 | 43.19 | 0.68 |
| Waterford (Tycor s1812) | 14.42 | 0.56 | 15.32 | 61.66 | 11.01 | 55.18 | 0.20 |
| Glenasmole (s1923) | -1.70 | 0.95 | 25.45 | 99.08 | -2.09 | 91.52 | -0.02 |
| Athlone (OPW s1929) | 52.03 | 0.03 | 11.79 | 51.11 | 32.93 | 43.41 | 0.76 |
| Carndolla (s2227) | 50.29 | 0.04 | 11.95 | 49.55 | 30.86 | 43.84 | 0.70 |
| Valentia (s2275) | 41.51 | 0.07 | 19.16 | 85.07 | 43.73 | 70.01 | 0.62 |
| Belmullet (s2375) | -10.53 | 0.58 | 14.69 | 76.95 | -10.03 | 52.92 | -0.19 |
| Enniscorthy (s4015) | 27.77 | 0.28 | 13.04 | 50.80 | 17.47 | 47.14 | 0.37 |
| Kilkenny (s4513) | 64.62 | 0.00 | 11.68 | 56.80 | 45.45 | 43.90 | 1.04 |
| Kilskyre (Robinstown s5131) | -0.65 | 0.97 | 12.46 | 69.07 | -0.55 | 44.83 | -0.01 |
| Kilaloe Dock (s6019) | 51.51 | 0.01 | 13.17 | 66.19 | 42.22 | 48.83 | 0.86 |
| Strokestown (s6329) | -1.26 | 0.95 | 11.72 | 61.48 | -0.96 | 42.15 | -0.02 |
| Portlaw (Mayfield s8212) | 15.37 | 0.54 | 15.78 | 62.87 | 11.97 | 56.83 | 0.21 |
| Island of Ireland | 25.74 | 0.01 | 5.85 | 63.85 | 20.35 | 21.81 | 0.93 |
|  |  |  |  |  |  |  |  |
| **Max 1 day precip amount (RX1day)** | **alpha (%)** | **p-value** | **alpha.se** | **avg obs** | **signal** | **noise** | **SNR** |
| Foulkesmills (s108) | 8.80 | 0.28 | 3.29 | 40.28 | 4.39 | 11.91 | 0.37 |
| Phoenix Park (s175) | 15.38 | 0.10 | 3.43 | 36.60 | 6.97 | 12.51 | 0.56 |
| Inagh (Mt. Callan s417) | 11.61 | 0.11 | 3.37 | 46.50 | 6.68 | 12.27 | 0.54 |
| Ballyhaise (s675) | 4.67 | 0.60 | 2.80 | 31.65 | 1.83 | 10.07 | 0.18 |
| Mallow (Hazelwood s706) | 7.87 | 0.30 | 2.74 | 36.52 | 3.56 | 9.89 | 0.36 |
| Mullingar (s875) | 3.68 | 0.69 | 2.95 | 32.44 | 1.48 | 10.63 | 0.14 |
| Cresslough (s944) | -6.48 | 0.42 | 3.28 | 41.16 | -3.30 | 11.84 | -0.28 |
| Roches Point (s1075) | -4.58 | 0.57 | 3.13 | 38.99 | -2.21 | 11.28 | -0.20 |
| Newport (s1175) | 11.58 | 0.15 | 3.31 | 41.49 | 5.95 | 12.04 | 0.49 |
| Markree (s1275) | -3.04 | 0.69 | 2.59 | 33.85 | -1.28 | 9.34 | -0.14 |
| Omeath (s1338) | -0.79 | 0.92 | 3.40 | 43.63 | -0.43 | 12.23 | -0.04 |
| Dunsany (s1375) | 10.42 | 0.22 | 2.76 | 32.93 | 4.25 | 10.00 | 0.42 |
| Westport (Carrabawn s1433) | 0.85 | 0.90 | 2.64 | 37.24 | 0.39 | 9.51 | 0.04 |
| Gurteen (s1475) | 1.51 | 0.83 | 2.14 | 30.34 | 0.57 | 7.71 | 0.07 |
| Meelick (Victoria Lock s1519) | 1.48 | 0.83 | 2.12 | 30.70 | 0.56 | 7.63 | 0.07 |
| Drumsna (Albert Lock s1529) | 5.68 | 0.42 | 2.29 | 32.90 | 2.31 | 8.27 | 0.28 |
| Lavagh (Ballyheelan s1530) | -0.71 | 0.94 | 2.80 | 32.09 | -0.28 | 10.07 | -0.03 |
| Malin Head (s1575) | 17.86 | 0.04 | 2.79 | 32.52 | 7.19 | 10.22 | 0.70 |
| Waterford (Tycor s1812) | -7.45 | 0.37 | 3.38 | 40.53 | -3.74 | 12.19 | -0.31 |
| Glenasmole (s1923) | 0.57 | 0.96 | 6.01 | 53.33 | 0.37 | 21.62 | 0.02 |
| Athlone (OPW s1929) | 8.14 | 0.28 | 2.45 | 32.46 | 3.27 | 8.87 | 0.37 |
| Carndolla (s2227) | 17.59 | 0.01 | 2.21 | 33.05 | 7.20 | 8.20 | 0.88 |
| Valentia (s2275) | 11.02 | 0.23 | 4.47 | 49.44 | 6.75 | 16.17 | 0.42 |
| Belmullet (s2375) | -8.59 | 0.27 | 2.87 | 36.90 | -3.93 | 10.38 | -0.38 |
| Enniscorthy (s4015) | 9.87 | 0.29 | 3.53 | 37.88 | 4.63 | 12.75 | 0.36 |
| Kilkenny (s4513) | 9.11 | 0.25 | 2.50 | 31.50 | 3.55 | 9.06 | 0.39 |
| Kilskyre (Robinstown s5131) | 3.33 | 0.66 | 2.47 | 32.52 | 1.34 | 8.90 | 0.15 |
| Kilaloe Dock (s6019) | 3.21 | 0.63 | 2.64 | 39.26 | 1.56 | 9.51 | 0.16 |
| Strokestown (s6329) | 1.07 | 0.89 | 2.43 | 32.93 | 0.44 | 8.74 | 0.05 |
| Portlaw (Mayfield s8212) | 1.49 | 0.85 | 3.42 | 43.15 | 0.80 | 12.29 | 0.06 |
| Island of Ireland | 4.41 | 0.16 | 1.15 | 37.16 | 2.03 | 4.17 | 0.49 |
|  |  |  |  |  |  |  |  |
| **Max 5 day precip amount (RX5day)** | **alpha (%)** | **p-value** | **alpha.se** | **avg obs** | **signal** | **noise** | **SNR** |
| Foulkesmills (s108) | 14.58 | 0.02 | 4.62 | 76.44 | 13.80 | 17.06 | 0.81 |
| Phoenix Park (s175) | 7.87 | 0.32 | 5.03 | 63.25 | 6.17 | 18.17 | 0.34 |
| Inagh (Mt. Callan s417) | 15.36 | 0.00 | 5.00 | 97.60 | 18.56 | 18.74 | 0.99 |
| Ballyhaise (s675) | 15.97 | 0.01 | 3.91 | 60.68 | 12.00 | 14.47 | 0.83 |
| Mallow (Hazelwood s706) | 8.74 | 0.17 | 4.47 | 69.94 | 7.57 | 16.22 | 0.47 |
| Mullingar (s875) | 11.47 | 0.08 | 3.89 | 60.56 | 8.60 | 14.21 | 0.61 |
| Cresslough (s944) | 8.79 | 0.12 | 4.61 | 81.48 | 8.87 | 16.76 | 0.53 |
| Roches Point (s1075) | 0.37 | 0.94 | 3.90 | 73.29 | 0.33 | 14.02 | 0.02 |
| Newport (s1175) | 14.64 | 0.02 | 5.36 | 88.57 | 16.05 | 19.80 | 0.81 |
| Markree (s1275) | 4.91 | 0.36 | 3.71 | 69.43 | 4.22 | 13.41 | 0.31 |
| Omeath (s1338) | 1.96 | 0.74 | 4.81 | 80.80 | 1.97 | 17.31 | 0.11 |
| Dunsany (s1375) | 6.61 | 0.31 | 3.87 | 60.13 | 4.92 | 13.99 | 0.35 |
| Westport (Carrabawn s1433) | 8.77 | 0.11 | 4.23 | 78.74 | 8.55 | 15.41 | 0.56 |
| Gurteen (s1475) | 6.69 | 0.20 | 3.06 | 58.55 | 4.85 | 11.09 | 0.44 |
| Meelick (Victoria Lock s1519) | 6.29 | 0.29 | 3.42 | 57.22 | 4.46 | 12.36 | 0.36 |
| Drumsna (Albert Lock s1529) | 14.63 | 0.01 | 3.64 | 63.72 | 11.54 | 13.49 | 0.86 |
| Lavagh (Ballyheelan s1530) | 6.97 | 0.31 | 3.88 | 56.84 | 4.91 | 14.04 | 0.35 |
| Malin Head (s1575) | 16.82 | 0.00 | 3.52 | 63.42 | 13.21 | 13.20 | 1.00 |
| Waterford (Tycor s1812) | 1.80 | 0.78 | 5.12 | 78.18 | 1.74 | 18.41 | 0.09 |
| Glenasmole (s1923) | -0.88 | 0.92 | 8.40 | 95.89 | -1.05 | 30.21 | -0.03 |
| Athlone (OPW s1929) | 15.20 | 0.01 | 3.31 | 59.59 | 11.22 | 12.32 | 0.91 |
| Carndolla (s2227) | 13.50 | 0.02 | 3.83 | 67.23 | 11.24 | 14.12 | 0.80 |
| Valentia (s2275) | 8.94 | 0.08 | 4.93 | 96.20 | 10.64 | 17.97 | 0.59 |
| Belmullet (s2375) | 0.97 | 0.88 | 4.45 | 71.78 | 0.86 | 16.02 | 0.05 |
| Enniscorthy (s4015) | 10.36 | 0.13 | 5.10 | 75.89 | 9.73 | 18.54 | 0.52 |
| Kilkenny (s4513) | 9.18 | 0.12 | 3.50 | 60.18 | 6.84 | 12.73 | 0.54 |
| Kilskyre (Robinstown s5131) | 1.99 | 0.73 | 3.43 | 60.60 | 1.50 | 12.35 | 0.12 |
| Kilaloe Dock (s6019) | 14.17 | 0.01 | 4.19 | 80.56 | 14.14 | 15.58 | 0.91 |
| Strokestown (s6329) | 5.91 | 0.37 | 4.24 | 64.47 | 4.72 | 15.29 | 0.31 |
| Portlaw (Mayfield s8212) | 4.71 | 0.46 | 5.41 | 84.63 | 4.94 | 19.50 | 0.25 |
| Island of Ireland | 8.51 | 0.00 | 2.02 | 71.86 | 7.57 | 7.55 | 1.00 |
|  |  |  |  |  |  |  |  |
| **Simple daily intensity index (SDII)** | **alpha (%)** | **p-value** | **alpha.se** | **avg obs** | **signal** | **noise** | **SNR** |
| Foulkesmills (s108) | 8.00 | 0.00 | 0.18 | 6.94 | 0.69 | 0.68 | 1.01 |
| Phoenix Park (s175) | 3.80 | 0.12 | 0.13 | 5.17 | 0.24 | 0.46 | 0.53 |
| Inagh (Mt. Callan s417) | 7.66 | 0.00 | 0.19 | 8.08 | 0.77 | 0.72 | 1.07 |
| Ballyhaise (s675) | 4.49 | 0.09 | 0.14 | 5.51 | 0.31 | 0.52 | 0.58 |
| Mallow (Hazelwood s706) | 9.60 | 0.00 | 0.14 | 5.84 | 0.69 | 0.55 | 1.25 |
| Mullingar (s875) | 6.37 | 0.00 | 0.12 | 5.56 | 0.44 | 0.46 | 0.96 |
| Cresslough (s944) | 5.42 | 0.05 | 0.18 | 6.47 | 0.43 | 0.66 | 0.66 |
| Roches Point (s1075) | 7.58 | 0.00 | 0.16 | 6.20 | 0.58 | 0.58 | 1.00 |
| Newport (s1175) | 13.77 | 0.00 | 0.17 | 6.90 | 1.18 | 0.69 | 1.71 |
| Markree (s1275) | 3.76 | 0.11 | 0.13 | 5.80 | 0.27 | 0.49 | 0.55 |
| Omeath (s1338) | -1.58 | 0.52 | 0.17 | 6.83 | -0.13 | 0.60 | -0.22 |
| Dunsany (s1375) | 6.28 | 0.00 | 0.11 | 5.37 | 0.42 | 0.42 | 0.98 |
| Westport (Carrabawn s1433) | 3.65 | 0.13 | 0.15 | 6.37 | 0.29 | 0.56 | 0.51 |
| Gurteen (s1475) | 3.68 | 0.12 | 0.12 | 5.25 | 0.24 | 0.44 | 0.54 |
| Meelick (Victoria Lock s1519) | 9.57 | 0.00 | 0.15 | 5.32 | 0.63 | 0.56 | 1.12 |
| Drumsna (Albert Lock s1529) | 3.20 | 0.17 | 0.13 | 5.69 | 0.23 | 0.48 | 0.47 |
| Lavagh (Ballyheelan s1530) | -0.62 | 0.77 | 0.11 | 5.25 | -0.04 | 0.40 | -0.10 |
| Malin Head (s1575) | 9.99 | 0.00 | 0.14 | 5.54 | 0.69 | 0.54 | 1.28 |
| Waterford (Tycor s1812) | 5.53 | 0.06 | 0.20 | 6.87 | 0.47 | 0.73 | 0.64 |
| Glenasmole (s1923) | 5.74 | 0.09 | 0.22 | 6.61 | 0.47 | 0.81 | 0.58 |
| Athlone (OPW s1929) | 3.00 | 0.21 | 0.13 | 5.46 | 0.20 | 0.47 | 0.43 |
| Carndolla (s2227) | 13.85 | 0.00 | 0.15 | 5.72 | 0.98 | 0.62 | 1.59 |
| Valentia (s2275) | 0.84 | 0.73 | 0.20 | 7.96 | 0.08 | 0.71 | 0.12 |
| Belmullet (s2375) | 2.11 | 0.35 | 0.13 | 5.99 | 0.16 | 0.49 | 0.32 |
| Enniscorthy (s4015) | 7.03 | 0.01 | 0.18 | 6.42 | 0.56 | 0.66 | 0.85 |
| Kilkenny (s4513) | 13.65 | 0.00 | 0.13 | 5.47 | 0.92 | 0.54 | 1.72 |
| Kilskyre (Robinstown s5131) | 1.86 | 0.46 | 0.14 | 5.45 | 0.13 | 0.50 | 0.25 |
| Kilaloe Dock (s6019) | 6.39 | 0.01 | 0.16 | 6.97 | 0.55 | 0.61 | 0.91 |
| Strokestown (s6329) | -3.71 | 0.12 | 0.13 | 5.65 | -0.26 | 0.48 | -0.54 |
| Portlaw (Mayfield s8212) | 7.44 | 0.02 | 0.22 | 7.15 | 0.66 | 0.80 | 0.83 |
| Island of Ireland | 5.64 | 0.00 | 0.09 | 6.13 | 0.43 | 0.33 | 1.30 |